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Ferrara, Napoleone
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Goddard, Audrey
Godowski, Paul J.
Grimaldi, J. Christopher
Gurney, Austin L.
Kljavin, Ivar J.
Napier, Mary A.
Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Watanabe, Colin K.
Williams, P. Mickey
Wood, William I.
Zhang, Zemin

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P2730P1sequencelisting.txt

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				20					25					30
Leu	Gly	Leu	Ile	Ser	Pro	Ala	Tyr	Leu	Phe	Leu	Trp	Pro	Glu	Ala
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Phe	Leu	Tyr	Arg	Phe	Gln	Ile	Trp	Arg	Pro	Ile	Thr	Ala	Thr	Phe
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Tyr	Phe	Pro	Val	Gly	Pro	Gly	Thr	Gly	Phe	Leu	Tyr	Leu	Val	Asn
				65					70					75
Leu	Tyr	Phe	Leu	Tyr	Gln	Tyr	Ser	Thr	Arg	Leu	Glu	Thr	Gly	Ala
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Phe	Asp	Gly	Arg	Pro	Ala	Asp	Tyr	Leu	Phe	Met	Leu	Leu	Phe	Asn
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Trp	Ile	Cys	Ile	Val	Ile	Thr	Gly	Leu	Ala	Met	Asp	Met	Gln	Leu
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Leu	Met	Ile	Pro	Leu	Ile	Met	Ser	Val	Leu	Tyr	Val	Trp	Ala	Gln
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Leu	Asn	Arg	Asp	Met	Ile	Val	Ser	Phe	Trp	Phe	Gly	Thr	Arg	Phe
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P2730P1sequencelisting.txt

Lys	Ala	Cys	Tyr	Leu	Pro	Trp	Val	Ile	Leu	Gly	Phe	Asn	Tyr	Ile
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				170					175					180
His	Leu	Tyr	Phe	Phe	Leu	Met	Phe	Arg	Tyr	Pro	Met	Asp	Leu	Gly
				185					190					195
Gly	Arg	Asn	Phe	Leu	Ser	Thr	Pro	Gln	Phe	Leu	Tyr	Arg	Trp	Leu
				200					205					210
Pro	Ser	Arg	Arg	Gly	Gly	Val	Ser	Gly	Phe	Gly	Val	Pro	Pro	Ala
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Ser	Met	Arg	Arg	Ala	Ala	Asp	Gln	Asn	Gly	Gly	Gly	Gly	Arg	His
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P2730P1sequencelisting.txt

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<212> PRT

<213> Homo sapiens

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Val	Ile	Thr	Pro	Gly	Ser	Pro	Glu	Pro	Val	Ile	Leu	Val	Ala	Cys	50	55	60	
Val	Pro	Leu	Val	Phe	Asp	Asp	Glu	Glu	Glu	Ser	Lys	Leu	Thr	Tyr	65	70	75	
Thr	Glu	Ile	His	Gln	Glu	Tyr	Lys	Glu	Leu	Val	Glu	Lys	Leu	Leu	80	85	90	
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Glu	Ala	Cys	Thr	Ser	Pro	Leu	Ala	Lys	Thr	His	Thr	Ser	Gln	Ala	110	115	120	
Ile	Leu	Gln	Pro	Val	Leu	Ala	Ala	Glu	Asp	Phe	Thr	Ile	Phe	Lys	125	130	135	
Ala	Met	Met	Val	Gln	Lys	Asn	Ile	Glu	Met	Gln	Leu	Gln	Ala	Ile	140	145	150	
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Ile	Leu	Arg	Glu	Val	Leu	Arg	Lys	Ser	Lys	Glu	Glu	Tyr	Asp	Gln	185	190	195	
Glu	Glu	Glu	Arg	Lys	Arg	Lys	Lys	Gln	Leu	Ser	Glu	Ala	Lys	Thr	200	205	210	
Glu	Glu	Pro	Thr	Val	His	Ser	Ser	Glu	Ala	Ala	Ile	Met	Asn	Asn	215	220	225	
Ser	Gln	Gly	Asp	Gly	Glu	His	Phe	Ala	His	Pro	Pro	Ser	Glu	Val				

P2730P1sequencelisting.txt

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260		265	270
Ile Pro Gly Leu	Glu His Ala Ser Ile	Glu Gly Pro Ile Ala	Asn
275		280	285
Leu Ser Val Leu	Gly Thr Glu Glu Leu	Arg Gln Arg Glu His	Tyr
290		295	300
Leu Lys Gln Lys	Arg Asp Lys Leu Met	Ser Met Arg Lys Asp	Met
305		310	315
Arg Thr Lys Gln	Ile Gln Asn Met Glu	Gln Lys Gly Lys Pro	Thr
320		325	330
Gly Glu Val Glu	Glu Met Thr Glu Lys	Pro Glu Met Thr Ala	Glu
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Glu Lys Gln Thr	Leu Leu Lys Arg Arg	Leu Leu Ala Glu Lys	Leu
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365			

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 <213> Homo sapiens

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 tgcacttctc ctcttgcaaa gaccataca tcacaggcca tttttgcaac 200
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<220>
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P2730P1sequencelisting.txt

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<210> 13
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P2730P1sequence1isting.txt

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P2730P1sequencelisting.txt

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<212> PRT

<213> Homo sapiens

<400> 14

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Ser	Ser	Arg	Ile	Leu	Leu	Val	Lys	Tyr	Ser	Ala	Asn	Glu	Glu	Asn	35	40	45	
Lys	Tyr	Asp	Tyr	Leu	Pro	Thr	Thr	Val	Asn	Val	Cys	Ser	Glu	Leu	50	55	60	
Val	Lys	Leu	Val	Phe	Cys	Val	Leu	Val	Ser	Phe	Cys	Val	Ile	Lys	65	70	75	
Lys	Asp	His	Gln	Ser	Arg	Asn	Leu	Lys	Tyr	Ala	Ser	Trp	Lys	Glu	80	85	90	
Phe	Ser	Asp	Phe	Met	Lys	Trp	Ser	Ile	Pro	Ala	Phe	Leu	Tyr	Phe	95	100	105	
Leu	Asp	Asn	Leu	Ile	Val	Phe	Tyr	Val	Leu	Ser	Tyr	Leu	Gln	Pro	110	115	120	
Ala	Met	Ala	Val	Ile	Phe	Ser	Asn	Phe	Ser	Ile	Ile	Thr	Thr	Ala	125	130	135	
Leu	Leu	Phe	Arg	Ile	Val	Leu	Lys	Arg	Arg	Leu	Asn	Trp	Ile	Gln	140	145	150	
Trp	Ala	Ser	Leu	Leu	Thr	Leu	Phe	Leu	Ser	Ile	Val	Ala	Leu	Thr	155	160	165	
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Arg	Ser	Glu	Cys	Pro	Arg	Lys	Asp	Asn	Cys	Thr	Ala	Lys	Glu	Trp	200	205	210	
Thr	Phe	Pro	Glu	Ala	Lys	Trp	Asn	Thr	Thr	Ala	Arg	Val	Phe	Ser	215	220	225	
His	Ile	Arg	Leu	Gly	Met	Gly	His	Val	Leu	Ile	Ile	Val	Gln	Cys	230	235	240	
Phe	Ile	Ser	Ser	Met	Ala	Asn	Ile	Tyr	Asn	Glu	Lys	Ile	Leu	Lys	245	250	255	
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P2730P1sequencelisting.txt

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Val Ser Val Leu	Val Phe Asp Phe Arg Pro Ser Leu Glu Phe	Phe
	350	360
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	365	375
Ser Lys Pro Gln	Val Pro Glu Tyr Ala Pro Arg Gln Glu Arg	Ile
	380	390
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P2730P1sequencelisting.txt

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<210> 18
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<220>
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<210> 19
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 <212> DNA
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P2730P1sequence1isting.txt

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 <212> PRT
 <213> Homo sapiens

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 Trp Ala Glu Pro Gly Met Pro Ser Gln Thr Pro Trp Trp Ala Ser
 20 25 30

P2730P1sequencelisting.txt

Ala	Ser	Ala	Asn	Pro	Pro	Gly	Pro	Ala	Trp	Val	Ala	Leu	Cys	Pro	35	40	45
Gly	Ser	Ser	Ser	Pro	Arg	Pro	Trp	Pro	Ser	Leu	Pro	Thr	Ser	Ser	50	55	60
Ser	Gly	Ser	Cys	Pro	Thr	Ser	His	Thr	Ala	Arg	Pro	Ile	Gly	Thr	65	70	75
Cys	Phe	Ser	Ile	Ala	Ser	Leu	Lys	Gln	Trp	Ser	Arg	Val	Ser	Met	80	85	90
Phe	Pro	Thr	Arg	Leu	Ser	Pro	Cys	Ser	Ser	Ala	Thr	Glu	Gln	Thr	95	100	105
Glu	Arg	Asp	Ser	Ala	Thr	Ala	Tyr	Arg	Met	Thr	Val	Glu	Val	Leu	110	115	120
Gly	Thr	Val	Leu	Gly	Thr	Ala	Ile	Gln	Gly	Gln	Ile	Val	Gly	Gln	125	130	135
Ala	Asp	Thr	Pro	Cys	Phe	Gln	Asp	Phe	Asn	Ser	Ser	Thr	Val	Ala	140	145	150
Ser	Gln	Ser	Ala	Asn	His	Thr	His	Gly	Thr	Thr	Ser	His	Arg	Glu	155	160	165
Thr	Gln	Lys	Ala	Tyr	Leu	Leu	Ala	Ala	Gly	Val	Ile	Val	Cys	Ile	170	175	180
Tyr	Ile	Ile	Cys	Ala	Val	Ile	Leu	Ile	Leu	Gly	Val	Arg	Glu	Gln	185	190	195
Arg	Glu	Pro	Tyr	Glu	Ala	Gln	Gln	Ser	Glu	Pro	Ile	Ala	Tyr	Phe	200	205	210
Arg	Gly	Leu	Arg	Leu	Val	Met	Ser	His	Gly	Pro	Tyr	Ile	Lys	Leu	215	220	225
Ile	Thr	Gly	Phe	Leu	Phe	Thr	Ser	Leu	Ala	Phe	Met	Leu	Val	Glu	230	235	240
Gly	Asn	Phe	Val	Leu	Phe	Cys	Thr	Tyr	Thr	Leu	Gly	Phe	Arg	Asn	245	250	255
Glu	Phe	Gln	Asn	Leu	Leu	Leu	Ala	Ile	Met	Leu	Ser	Ala	Thr	Leu	260	265	270
Thr	Ile	Pro	Ile	Trp	Gln	Trp	Phe	Leu	Thr	Arg	Phe	Gly	Lys	Lys	275	280	285
Thr	Ala	Val	Tyr	Val	Gly	Ile	Ser	Ser	Ala	Val	Pro	Phe	Leu	Ile	290	295	300
Leu	Val	Ala	Leu	Met	Glu	Ser	Asn	Leu	Ile	Ile	Thr	Tyr	Ala	Val	305	310	315
Ala	Val	Ala	Ala	Gly	Ile	Ser	Val	Ala	Ala	Ala	Phe	Leu	Leu	Pro	320	325	330
Trp	Ser	Met	Leu	Pro	Asp	Val	Ile	Asp	Asp	Phe	His	Leu	Lys	Gln	335	340	345
Pro	His	Phe	His	Gly	Thr	Glu	Pro	Ile	Phe	Phe	Ser	Phe	Tyr	Val	350	355	360
Phe	Phe	Thr	Lys	Phe	Ala	Ser	Gly	Val	Ser	Leu	Gly	Ile	Ser	Thr	365	370	375

P2730P1sequencelisting.txt

Leu	Ser	Leu	Asp	Phe	Ala	Gly	Tyr	Gln	Thr	Arg	Gly	Cys	Ser	Gln
				380					385					390
Pro	Glu	Arg	Val	Lys	Phe	Thr	Leu	Asn	Met	Leu	Val	Thr	Met	Ala
				395					400					405
Pro	Ile	Val	Leu	Ile	Leu	Leu	Gly	Leu	Leu	Leu	Phe	Lys	Met	Tyr
				410					415					420
Pro	Ile	Asp	Glu	Glu	Arg	Arg	Arg	Gln	Asn	Lys	Lys	Ala	Leu	Gln
				425					430					435
Ala	Leu	Arg	Asp	Glu	Ala	Ser	Ser	Ser	Gly	Cys	Ser	Glu	Thr	Asp
				440					445					450
Ser	Thr	Glu	Leu	Ala	Ser	Ile	Leu							
				455										

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 ggctgggtcat gagccacggc ccatacatca aacttattac tggcttcctc 200
 ttcacctcct tggctttcat gctgggtggag gggaactttg tcttgttttg 250
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 cggttttggca agaagacagc tgtatatgtt gggatctcat cagcagtgcc 400
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 cggtagctgt ggcagctggc atcagtgtgg cagctgcctt cttactaccc 500
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 <211> 1173
 <212> DNA
 <213> Homo sapiens

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 aaacagaaaa cctgttagaa atgtgggtgg ttcagcaagg cctcagtttc 150
 cttccttcag cccttgtaat ttggacatct gctgctttca tattttcata 200
 cattactgca gtaacactcc accatataga cccggcttta cttatatca 250
 gtgacactgg tacagtagct ccagaaaaat gcttatttgg ggcaatgcta 300
 aatattgcgg cagttttatg cattgctacc atttatgttc gttataagca 350

P2730P1sequence1isting.txt

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aacttcaga aaacaacct ttttgctgca catgtaagtg gagctgtgct 500
tacctttggt atgggctcat tatatatggt tgttcagacc atcctttcct 550
accaaagca gcccaaatc catggcaaac aagtcttctg gatcagactg 600
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<210> 23
<211> 266
<212> PRT
<213> Homo sapiens

<400> 23
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20 25 30
Val Thr Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp
35 40 45
Thr Gly Thr Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu
50 55 60
Asn Ile Ala Ala Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr
65 70 75
Lys Gln Val His Ala Leu Ser Pro Glu Glu Asn Val Ile Ile Lys
80 85 90
Leu Asn Lys Ala Gly Leu Val Leu Gly Ile Leu Ser Cys Leu Gly
95 100 105
Leu Ser Ile Val Ala Asn Phe Gln Lys Thr Thr Leu Phe Ala Ala
110 115 120
His Val Ser Gly Ala Val Leu Thr Phe Gly Met Gly Ser Leu Tyr
125 130 135

P2730P1sequencelisting.txt

Met	Phe	Val	Gln	Thr	Ile	Leu	Ser	Tyr	Gln	Met	Gln	Pro	Lys	Ile
				140					145					150
His	Gly	Lys	Gln	Val	Phe	Trp	Ile	Arg	Leu	Leu	Leu	Val	Ile	Trp
				155					160					165
Cys	Gly	Val	Ser	Ala	Leu	Ser	Met	Leu	Thr	Cys	Ser	Ser	Val	Leu
				170					175					180
His	Ser	Gly	Asn	Phe	Gly	Thr	Asp	Leu	Glu	Gln	Lys	Leu	His	Trp
				185					190					195
Asn	Pro	Glu	Asp	Lys	Gly	Tyr	Val	Leu	His	Met	Ile	Thr	Thr	Ala
				200					205					210
Ala	Glu	Trp	Ser	Met	Ser	Phe	Ser	Phe	Phe	Gly	Phe	Phe	Leu	Thr
				215					220					225
Tyr	Ile	Arg	Asp	Phe	Gln	Lys	Ile	Ser	Leu	Arg	Val	Glu	Ala	Asn
				230					235					240
Leu	His	Gly	Leu	Thr	Leu	Tyr	Asp	Thr	Ala	Pro	Cys	Pro	Ile	Asn
				245					250					255
Asn	Glu	Arg	Thr	Arg	Leu	Leu	Ser	Arg	Asp	Ile				
				260					265					

<210> 24
 <211> 485
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 14, 484
 <223> unknown base

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 gagcggagat cctcaaacgg cctagtgcct cgcgcttccg gagaaaatca 150
 gcggtctaataa taattcctct ggtttggtga agcagttacc aagaatcttc 200
 aaccctttcc cacaaaagct aattgagtac acgttcctgt tgagtacacg 250
 ttctgttgga ttacaaaag gtgcaggtat gagcaggtct gaagactaac 300
 attttgtaga gttgtaaaac agaaaacctg ttagaaatgt ggtgggtttca 350
 gcaaggcctc agtttccttc cttcagccct tgtaatttgg acatctgctg 400
 ctttcatatt ttcatacatt actgcagtaa cactccacca tatagaccg 450
 gctttacctt atatcagtga cactggtaca gtanc 485

<210> 25
 <211> 40
 <212> DNA
 <213> Artificial sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 25
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 Page 28

P2730P1sequencelisting.txt

<210> 26
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 26
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<210> 27
 <211> 1399
 <212> DNA
 <213> Homo sapiens

<400> 27
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P2730P1sequence1isting.txt

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<210> 28
<211> 264
<212> PRT
<213> Homo sapiens

<400> 28
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Phe Ala Leu Tyr Leu Leu Ser Thr Arg Leu Pro Arg Gly Arg Arg
20 25 30
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35 40 45
Ser Asp Leu Ala Glu Leu Arg Glu Leu Ser Glu Val Leu Arg Glu
50 55 60
Tyr Arg Lys Glu His Gln Ala Tyr Val Phe Leu Leu Phe Cys Gly
65 70 75
Ala Tyr Leu Tyr Lys Gln Gly Phe Ala Ile Pro Gly Ser Ser Phe
80 85 90
Leu Asn Val Leu Ala Gly Ala Leu Phe Gly Pro Trp Leu Gly Leu
95 100 105
Leu Leu Cys Cys Val Leu Thr Ser Val Gly Ala Thr Cys Cys Tyr
110 115 120
Leu Leu Ser Ser Ile Phe Gly Lys Gln Leu Val Val Ser Tyr Phe
125 130 135
Pro Asp Lys Val Ala Leu Leu Gln Arg Lys Val Glu Glu Asn Arg
140 145 150
Asn Ser Leu Phe Phe Phe Leu Leu Phe Leu Arg Leu Phe Pro Met
155 160 165
Thr Pro Asn Trp Phe Leu Asn Leu Ser Ala Pro Ile Leu Asn Ile
170 175 180
Pro Ile Val Gln Phe Phe Phe Ser Val Leu Ile Gly Leu Ile Pro
185 190 195
Tyr Asn Phe Ile Cys Val Gln Thr Gly Ser Ile Leu Ser Thr Leu
200 205 210
Thr Ser Leu Asp Ala Leu Phe Ser Trp Asp Thr Val Phe Lys Leu
215 220 225
Leu Ala Ile Ala Met Val Ala Leu Ile Pro Gly Thr Leu Ile Lys
230 235 240
Lys Phe Ser Gln Lys His Leu Gln Leu Asn Glu Thr Ser Thr Ala
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Asn His Ile His Ser Arg Lys Asp Thr
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<210> 29
<211> 1292

P2730P1sequencelisting.txt

<212> DNA

<213> Homo sapiens

<400> 29

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tggaagacat ggatcttgct gccaacgaga tcagcattta tgacaaactt 200
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<210> 30

<211> 347

<212> PRT

<213> Homo sapiens

<400> 30

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          20          25          30

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P2730P1sequencelisting.txt

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Asn Glu Pro Gln Arg Pro Pro Pro Gln Tyr Pro Leu Leu Ile Val
    50          55          60
Val Tyr Lys Val Leu Ala Thr Leu Gly Leu Ile Leu Leu Thr Ala
    65          70          75
Tyr Phe Val Ile Gln Pro Phe Ser Pro Leu Ala Pro Glu Pro Val
    80          85          90
Leu Ser Gly Ala His Thr Trp Arg Ser Leu Ile His His Ile Arg
    95          100         105
Leu Met Ser Leu Pro Ile Ala Lys Lys Tyr Met Ser Glu Asn Lys
   110         115         120
Gly Val Pro Leu His Gly Gly Asp Glu Asp Arg Pro Phe Pro Asp
   125         130         135
Phe Asp Pro Trp Trp Thr Asn Asp Cys Glu Gln Asn Glu Ser Glu
   140         145         150
Pro Ile Pro Ala Asn Cys Thr Gly Cys Ala Gln Lys His Leu Lys
   155         160         165
Val Met Leu Leu Glu Asp Ala Pro Arg Lys Phe Glu Arg Leu His
   170         175         180
Pro Leu Val Ile Lys Thr Gly Lys Pro Leu Leu Glu Glu Glu Ile
   185         190         195
Gln His Phe Leu Cys Gln Tyr Pro Glu Ala Thr Glu Gly Phe Ser
   200         205         210
Glu Gly Phe Phe Ala Lys Trp Trp Arg Cys Phe Pro Glu Arg Trp
   215         220         225
Phe Pro Phe Pro Tyr Pro Trp Arg Arg Pro Leu Asn Arg Ser Gln
   230         235         240
Met Leu Arg Glu Leu Phe Pro Val Phe Thr His Leu Pro Phe Pro
   245         250         255
Lys Asp Ala Ser Leu Asn Lys Cys Ser Phe Leu His Pro Glu Pro
   260         265         270
Val Val Gly Ser Lys Met His Lys Met Pro Asp Leu Phe Ile Ile
   275         280         285
Gly Ser Gly Glu Ala Met Leu Gln Leu Ile Pro Pro Phe Gln Cys
   290         295         300
Arg Arg His Cys Gln Ser Val Ala Met Pro Ile Glu Pro Gly Asp
   305         310         315
Ile Gly Tyr Val Asp Thr Thr His Trp Lys Val Tyr Val Ile Ala
   320         325         330
Arg Gly Val Gln Pro Leu Val Ile Cys Asp Gly Thr Ala Phe Ser
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Glu Leu

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<210> 31
<211> 478

P2730P1sequencelisting.txt

<212> DNA

<213> Homo sapiens

<400> 31

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ttggtgagac agaccggcca tcagtgtggc atgtcagaga aggcaattga 300
aaaatttatc agacagctgc tggaaaagaa tgaacctcag agaccccccc 350
cgcagtatcc tctccttata gttgtgtata aggttctcgc aaccttgagg 400
ttaatcttgc tcactgccta ctttgtgatt caacctttca gcccattagc 450
acctgagcca gtgctttgtg gagctcac 478
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<210> 32

<211> 3531

<212> DNA

<213> Homo sapiens

<400> 32

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gcagagcgct gctcctggct ggtgccactg gtgcgcacgc tgctagaccg 150
tgcctatgag ccgctggggc tgcatggggg actgccctcc ctgccaccca 200
ccaatggcag cccacacctt tttgaagact tccaggcttt ttgtgccaca 250
cccgaatggc gccacttcat cgacaaacag gtacagccaa ccatgtccca 300
gttcgaaatg gacacgtatg ctaagagcca cgaccttatg tcaggtttct 350
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cgagtgccag ctggtgacgg tagtggccgt ggtcccaggg ctgctggagg 950
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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 <211> 1003
 <212> PRT
 <213> Homo sapiens

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 Gly Gln Arg Arg Gln Trp Glu Arg Ala Gln Ser Arg Arg Ala Phe
 35 40 45
 Gln Glu Leu Val Leu Glu Pro Ala Gln Arg Arg Ala Arg Leu Glu
 50 55 60
 Gly Leu Arg Tyr Thr Ala Val Leu Lys Gln Gln Ala Thr Gln His
 65 70 75
 Ser Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala
 80 85 90
 Ser Pro Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg
 95 100 105
 Trp Lys Leu Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg Leu Lys
 110 115 120
 Leu Val Pro Asn His His Phe Asp Pro His Leu Glu Ala Ser Ala
 125 130 135
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P2730P1sequencelisting.txt

Leu Arg Asp Asn	Leu Gly Glu Val	Pro Leu Thr Pro Thr Glu	Glu
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Ala Ser Leu Pro	Leu Ala Val Thr Lys	Glu Ala Lys Val Ser	Thr
155	160	165	
Pro Pro Glu Leu	Leu Gln Glu Asp Gln	Leu Gly Glu Asp Glu	Leu
170	175	180	
Ala Glu Leu Glu	Thr Pro Met Glu Ala	Ala Glu Leu Asp Glu	Gln
185	190	195	
Arg Glu Lys Leu	Val Leu Ser Ala Glu	Cys Gln Leu Val Thr	Val
200	205	210	
Val Ala Val Val	Pro Gly Leu Leu Glu	Val Thr Thr Gln Asn	Val
215	220	225	
Tyr Phe Tyr Asp	Gly Ser Thr Glu Arg	Val Glu Thr Glu Glu	Gly
230	235	240	
Ile Gly Tyr Asp	Phe Arg Arg Pro Leu	Ala Gln Leu Arg Glu	Val
245	250	255	
His Leu Arg Arg	Phe Asn Leu Arg Arg	Ser Ala Leu Glu Leu	Phe
260	265	270	
Phe Ile Asp Gln	Ala Asn Tyr Phe Leu	Asn Phe Pro Cys Lys	Val
275	280	285	
Gly Thr Thr Pro	Val Ser Ser Pro Ser	Gln Thr Pro Arg Pro	Gln
290	295	300	
Pro Gly Pro Ile	Pro Pro His Thr Gln	Val Arg Asn Gln Val	Tyr
305	310	315	
Ser Trp Leu Leu	Arg Leu Arg Pro Pro	Ser Gln Gly Tyr Leu	Ser
320	325	330	
Ser Arg Ser Pro	Gln Glu Met Leu Arg	Ala Ser Gly Leu Thr	Gln
335	340	345	
Lys Trp Val Gln	Arg Glu Ile Ser Asn	Phe Glu Tyr Leu Met	Gln
350	355	360	
Leu Asn Thr Ile	Ala Gly Arg Thr Tyr	Asn Asp Leu Ser Gln	Tyr
365	370	375	
Pro Val Phe Pro	Trp Val Leu Gln Asp	Tyr Val Ser Pro Thr	Leu
380	385	390	
Asp Leu Ser Asn	Pro Ala Val Phe Arg	Asp Leu Ser Lys Pro	Ile
395	400	405	
Gly Val Val Asn	Pro Lys His Ala Gln	Leu Val Arg Glu Lys	Tyr
410	415	420	
Glu Ser Phe Glu	Asp Pro Ala Gly Thr	Ile Asp Lys Phe His	Tyr
425	430	435	
Gly Thr His Tyr	Ser Asn Ala Ala Gly	Val Met His Tyr Leu	Ile
440	445	450	
Arg Val Glu Pro	Phe Thr Ser Leu His	Val Gln Leu Gln Ser	Gly
455	460	465	
Arg Phe Asp Cys	Ser Asp Arg Gln Phe	His Ser Val Ala Ala	Ala

P2730P1sequencelisting.txt

470										475	480									
Trp	Gln	Ala	Arg	Leu	Glu	Ser	Pro	Ala	Asp	Val	Lys	Glu	Leu	Ile						
				485					490					495						
Pro	Glu	Phe	Phe	Tyr	Phe	Pro	Asp	Phe	Leu	Glu	Asn	Gln	Asn	Gly						
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Phe	Asp	Leu	Gly	Cys	Leu	Gln	Leu	Thr	Asn	Glu	Lys	Val	Gly	Asp						
				515					520					525						
Val	Val	Leu	Pro	Pro	Trp	Ala	Ser	Ser	Pro	Glu	Asp	Phe	Ile	Gln						
				530					535					540						
Gln	His	Arg	Gln	Ala	Leu	Glu	Ser	Glu	Tyr	Val	Ser	Ala	His	Leu						
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His	Glu	Trp	Ile	Asp	Leu	Ile	Phe	Gly	Tyr	Lys	Gln	Arg	Gly	Pro						
				560					565					570						
Ala	Ala	Glu	Glu	Ala	Leu	Asn	Val	Phe	Tyr	Tyr	Cys	Thr	Tyr	Glu						
				575					580					585						
Gly	Ala	Val	Asp	Leu	Asp	His	Val	Thr	Asp	Glu	Arg	Glu	Arg	Lys						
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Ala	Leu	Glu	Gly	Ile	Ile	Ser	Asn	Phe	Gly	Gln	Thr	Pro	Cys	Gln						
				605					610					615						
Leu	Leu	Lys	Glu	Pro	His	Pro	Thr	Arg	Leu	Ser	Ala	Glu	Glu	Ala						
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Ala	His	Arg	Leu	Ala	Arg	Leu	Asp	Thr	Asn	Ser	Pro	Ser	Ile	Phe						
				635					640					645						
Gln	His	Leu	Asp	Glu	Leu	Lys	Ala	Phe	Phe	Ala	Glu	Val	Thr	Val						
				650					655					660						
Ser	Ala	Ser	Gly	Leu	Leu	Gly	Thr	His	Ser	Trp	Leu	Pro	Tyr	Asp						
				665					670					675						
Arg	Asn	Ile	Ser	Asn	Tyr	Phe	Ser	Phe	Ser	Lys	Asp	Pro	Thr	Met						
				680					685					690						
Gly	Ser	His	Lys	Thr	Gln	Arg	Leu	Leu	Ser	Gly	Pro	Trp	Val	Pro						
				695					700					705						
Gly	Ser	Gly	Val	Ser	Gly	Gln	Ala	Leu	Ala	Val	Ala	Pro	Asp	Gly						
				710					715					720						
Lys	Leu	Leu	Phe	Ser	Gly	Gly	His	Trp	Asp	Gly	Ser	Leu	Arg	Val						
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Thr	Ala	Leu	Pro	Arg	Gly	Lys	Leu	Leu	Ser	Gln	Leu	Ser	Cys	His						
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Leu	Asp	Val	Val	Thr	Cys	Leu	Ala	Leu	Asp	Thr	Cys	Gly	Ile	Tyr						
				755					760					765						
Leu	Ile	Ser	Gly	Ser	Arg	Asp	Thr	Thr	Cys	Met	Val	Trp	Arg	Leu						
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Leu	His	Gln	Gly	Gly	Leu	Ser	Val	Gly	Leu	Ala	Pro	Lys	Pro	Val						
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Gln	Val	Leu	Tyr	Gly	His	Gly	Ala	Ala	Val	Ser	Cys	Val	Ala	Ile						
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P2730P1sequencelisting.txt

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      845      850      855
Leu Gly Ser Glu Gly Gln Ile Val Val Gln Ser Ser Ala Trp Glu
      860      865      870
Arg Pro Gly Ala Gln Val Thr Tyr Ser Leu His Leu Tyr Ser Val
      875      880      885
Asn Gly Lys Leu Arg Ala Ser Leu Pro Leu Ala Glu Gln Pro Thr
      890      895      900
Ala Leu Thr Val Thr Glu Asp Phe Val Leu Leu Gly Thr Ala Gln
      905      910      915
Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu Leu Pro Ala Ala
      920      925      930
Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val Ala Val Thr
      935      940      945
Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly Lys Leu
      950      955      960
Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser Gln
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 <223> Synthetic oligonucleotide probe

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 <212> DNA
 <213> Homo sapiens

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P2730P1sequencelisting.txt

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<213> Homo sapiens

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35 40 45
Ile Gln Arg Ser Val Phe Asn Leu Gln Ile Tyr Gly Val Leu Gly
50 55 60
Leu Phe Trp Thr Leu Asn Trp Val Leu Ala Leu Gly Gln Cys Val
65 70 75
Leu Ala Gly Ala Phe Ala Ser Phe Tyr Trp Ala Phe His Lys Pro
80 85 90

P2730P1sequencelisting.txt

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Leu Arg Tyr His Thr	Gly Ser Leu Ala	Phe Gly Ala Leu Ile	Leu
110		115	120
Thr Leu Val Gln Ile	Ala Arg Val Ile	Leu Glu Tyr Ile Asp	His
125		130	135
Lys Leu Arg Gly Val	Gln Asn Pro Val	Ala Arg Cys Ile Met	Cys
140		145	150
Cys Phe Lys Cys Cys	Leu Trp Cys Leu	Glu Lys Phe Ile Lys	Phe
155		160	165
Leu Asn Arg Asn Ala	Tyr Ile Met Ile	Ala Ile Tyr Gly Lys	Asn
170		175	180
Phe Cys Val Ser Ala	Lys Asn Ala Phe	Met Leu Leu Met Arg	Asn
185		190	195
Ile Val Arg Val Val	Val Leu Asp Lys	Val Thr Asp Leu Leu	Leu
200		205	210
Phe Phe Gly Lys Leu	Leu Val Val Gly	Gly Val Gly Val Leu	Ser
215		220	225
Phe Phe Phe Phe Ser	Gly Arg Ile Pro	Gly Leu Gly Lys Asp	Phe
230		235	240
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245		250	255
Ile Leu Gly Ala Tyr	Val Ile Ala Ser	Gly Phe Phe Ser Val	Phe
260		265	270
Gly Met Cys Val Asp	Thr Leu Phe Leu	Cys Phe Leu Glu Asp	Leu
275		280	285
Glu Arg Asn Asn Gly	Ser Leu Asp Arg	Pro Tyr Tyr Met Ser	Lys
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<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

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<223> Synthetic oligonucleotide probe

<400> 38

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<210> 39

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 39

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<211> 1365

<212> DNA

<213> Homo sapiens

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P2730P1sequencelisting.txt

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 35 40 45
 Gln Tyr Thr Leu Val Pro Val Ser Gly Trp Gln Glu Leu Glu Thr
 50 55 60
 Ala Phe Leu Glu His Lys Glu Gln Phe His Tyr Phe Ile Leu Ile
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 80 85 90
 Glu Asp Thr Ile Phe Phe Val Cys Asp Ser His Arg Pro Val Asn
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 Val Val Asn Val Tyr Asn Asp Thr Gln Ile Lys Leu Leu Ile Lys
 110 115 120
 Gln Asp Asp Asp Leu Glu Val Pro Ala Tyr Glu Asp Ile Phe Arg
 125 130 135
 Asp Glu Glu Glu Asp Glu Glu His Ser Gly Asn Asp Ser Asp Gly
 140 145 150
 Ser Glu Pro Ser Glu Lys Arg Thr Arg Leu Glu Glu Glu Ile Val
 155 160 165
 Glu Gln Thr Met Arg Arg Arg Gln Arg Arg Glu Trp Glu Ala Arg
 170 175 180
 Arg Arg Asp Ile Leu Phe Asp Tyr Glu Gln Tyr Glu Tyr His Gly
 185 190 195
 Thr Ser Ser Ala Met Val Met Phe Glu Leu Ala Trp Met Leu Ser
 200 205 210
 Lys Asp Leu Asn Asp Met Leu Trp Trp Ala Ile Val Gly Leu Thr
 215 220 225
 Asp Gln Trp Val Gln Asp Lys Ile Thr Gln Met Lys Tyr Val Thr
 230 235 240
 Asp Val Gly Val Leu Gln Arg His Val Ser Arg His Asn His Arg
 245 250 255
 Asn Glu Asp Glu Glu Asn Thr Leu Ser Val Asp Cys Thr Arg Ile
 260 265 270
 Ser Phe Glu Tyr Asp Leu Arg Leu Val Leu Tyr Gln His Trp Ser
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P2730P1sequencelisting.txt

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305		310	315
Ala Asp Met Gly	Leu Pro Leu Lys Gln	Val Lys Gln Lys Phe	Gln
320		325	330
Ala Met Asp Ile	Ser Leu Lys Glu Asn	Leu Arg Glu Met Ile	Glu
335		340	345
Glu Ser Ala Asn	Lys Phe Gly Met Lys	Asp Met Arg Val Gln	Thr
350		355	360
Phe Ser Ile His	Phe Gly Phe Lys His	Lys Phe Leu Ala Ser	Asp
365		370	375
Val Val Phe Ala	Thr Met Ser Leu Met	Glu Ser Pro Glu Lys	Asp
380		385	390
Gly Ser Gly Thr	Asp His Phe Ile Gln	Ala Leu Asp Ser Leu	Ser
395		400	405
Arg Ser Asn Leu	Asp Lys Leu Tyr His	Gly Leu Glu Leu Ala	Lys
410		415	420
Lys Gln Leu Arg	Ala Thr Gln Gln Thr	Ile Ala Ser Cys Leu	Cys
425		430	435
Thr Asn Leu Val	Ile Ser Gln Gly Pro	Phe Leu Tyr Cys Ser	Leu
440		445	450
Met Glu Gly Thr	Pro Asp Val Met Leu	Phe Ser Arg Pro Ala	Ser
455		460	465
Leu Ser Leu Leu	Ser Lys His Leu Leu	Lys Ser Phe Val Cys	Ser
470		475	480
Thr Lys Asn Arg	Arg Cys Lys Leu Leu	Pro Leu Val Met Ala	Ala
485		490	495
Pro Leu Ser Met	Glu His Gly Thr Val	Thr Val Val Gly Ile	Pro
500		505	510
Pro Glu Thr Asp	Ser Ser Asp Arg Lys	Asn Phe Phe Gly Arg	Ala
515		520	525
Phe Glu Lys Ala	Ala Glu Ser Thr Ser	Ser Arg Met Leu His	Asn
530		535	540
His Phe Asp Leu	Ser Val Ile Glu Leu	Lys Ala Glu Asp Arg	Ser
545		550	555
Lys Phe Leu Asp	Ala Leu Ile Ser Leu	Leu Ser	
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<210> 42
 <211> 380
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> unsure
 <222> 44, 118, 172, 183
 <223> unknown base

P2730P1sequencelisting.txt

<400> 42
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 ccgatttccg caaagagttc tacgaggtgg tccagagcca gagggtcctt 100
 ctcttcgtgg cctcggangt ggatgctctg tgtgcgtgca agatccttca 150
 ggccttgttc cagtgtgacc angtgcaata tangctgggt ccagtttctg 200
 ggtggcaaga acttgaaact gcatttcttg agcataaaga acagtttcat 250
 tattttattc tcataaactg tggagctaata gtagacctat tggatattct 300
 tcaacctgat gaagacacta tattctttgt gtgtgacacc cataggccag 350
 tcaatgttgt caatgtatac aacgataccc 380

<210> 43
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 43
 ttccgcaaag agttctacga ggtgg 25

<210> 44
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 44
 attgacaaca ttgactggcc tatggg 26

<210> 45
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 45
 gtggatgctc tgtgtgcgtg caagatcctt caggccttgt tccagtgtga 50

<210> 46
 <211> 3089
 <212> DNA
 <213> Homo sapiens

<400> 46
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 ggaaatagac tacagcccca attggctgac tttggctata gaaaaaagaa 150
 aggaacgaaa agagacagtt ttttttgaa agctaagtct tccctttatc 200
 gagtcaagaa accccccctt cttgagctat ttacagcttt taacaattga 250
 gtaaagtacg ctccggtcac catggtgaca gccgccctgg gtcccgtctg 300

P2730P1sequencelisting.txt

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ggcagcgctc ctgctctttc tcctgatgtg tgagatccgt atggtggagc 350
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gaggaccccc tggatcctgc ccatgtatcc tcagcctctt cctccggccg 450
cccccacgcc ctgcctgaga tcagacccta cattaatatc accatcctga 500
aggggtgacaa agggggaccca ggcccaatgg gcctgccagg gtacatgggc 550
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tctcagtggg ccgcaagacg gccctgcaca gcggcgagga cttccagacg 700
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attctctcat ccctccaggg ctccccgtgc tatgttctct ttacccttc 1900
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tcattcatta aacactgagc actcactctg tgctgggtcc cgggaagggt 2000

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P2730P1sequencelisting.txt

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taaagaatgc tgtctcctct tggaaaaaa aaaaaaaa 3089

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<210> 47
 <211> 259
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Signal Peptide
 <222> 1-20
 <223> Signal Peptide

<220>
 <221> N-glycosylation Site
 <222> 72-75
 <223> N-glycosylation Site

<220>
 <221> Clq Domain Proteins
 <222> 144-178, 78-111, 84-117
 <223> Clq Domain Proteins

<400> 47
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P2730P1sequencelisting.txt

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Arg Ala Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp
      35      40      45
Pro Leu Asp Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg
      50      55      60
Pro His Ala Leu Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile
      65      70      75
Leu Lys Gly Asp Lys Gly Asp Pro Gly Pro Met Gly Leu Pro Gly
      80      85      90
Tyr Met Gly Arg Glu Gly Pro Gln Gly Glu Pro Gly Pro Gln Gly
      95     100     105
Ser Lys Gly Asp Lys Gly Glu Met Gly Ser Pro Gly Ala Pro Cys
     110     115     120
Gln Lys Arg Phe Phe Ala Phe Ser Val Gly Arg Lys Thr Ala Leu
     125     130     135
His Ser Gly Glu Asp Phe Gln Thr Leu Leu Phe Glu Arg Val Phe
     140     145     150
Val Asn Leu Asp Gly Cys Phe Asp Met Ala Thr Gly Gln Phe Ala
     155     160     165
Ala Pro Leu Arg Gly Ile Tyr Phe Phe Ser Leu Asn Val His Ser
     170     175     180
Trp Asn Tyr Lys Glu Thr Tyr Val His Ile Met His Asn Gln Lys
     185     190     195
Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser Glu Arg Ser Ile Met
     200     205     210
Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr Gly Asp Arg Val
     215     220     225
Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala Ile Tyr Ser
     230     235     240
Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu Ile Lys
     245     250     255

Ala Glu Asp Asp

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<210> 48

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 48

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<210> 49

<211> 23

<212> DNA

<213> Artificial Sequence

P2730P1sequencelisting.txt

<220>

<223> Synthetic oligonucleotide probe

<400> 49

ggccccgta ggccaggtcc agc 23

<210> 50

<211> 50

<212> DNA

<213> Artificial sequence

<220>

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ctacttcttc agcctcaatg tgcacagctg gaattacaag gagacgtacg 50

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<211> 2768

<212> DNA

<213> Homo sapiens

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ccgcctcccg ggacagaaga tgtgctccag ggtccctctg ctgctgccgc 150
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P2730P1sequencelisting.txt

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cgaggcccgt ggtgcgggag cccacagcct tgtcttctag cttggctcct 1250
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aaaagatgaa gtgtgaaa 2768

P2730P1sequencelisting.txt

<211> 673

<212> PRT

<213> Homo sapiens

<400> 52

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 20          25          30

Ser Gln Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr
 35          40          45

Val Pro Arg Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe
 50          55          60

Glu Asn Gly Ile Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu
 65          70          75

Pro Gly Leu Gln Leu Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser
 80          85          90

Leu Pro Ser Gly Val Phe Gln Pro Leu Ala Asn Leu Ser Asn Leu
 95          100         105

Asp Leu Thr Ala Asn Arg Leu His Glu Ile Thr Asn Glu Thr Phe
110         115         120

Arg Gly Leu Arg Arg Leu Glu Arg Leu Tyr Leu Gly Lys Asn Arg
125         130         135

Ile Arg His Ile Gln Pro Gly Ala Phe Asp Thr Leu Asp Arg Leu
140         145         150

Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu Arg Ala Leu Pro Pro
155         160         165

Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu Ser His Asn Ser
170         175         180

Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala Asn Val Glu
185         190         195

Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp Glu Gly
200         205         210

Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser Asp
215         220         225

Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly
230         235         240

Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala Gln Leu
245         250         255

Arg Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu Asp
260         265         270

Val Ser Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly
275         280         285

Leu Phe Pro Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe
290         295         300

Asn Cys Val Cys Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu
305         310         315

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P2730P1sequencelisting.txt

Ser His Val Thr	Leu Ala Ser Pro Glu	Glu Thr Arg Cys His	Phe
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Pro Pro Lys Asn	Ala Gly Arg Leu Leu	Leu Glu Leu Asp Tyr	Ala
335		340	345
Asp Phe Gly Cys	Pro Ala Thr Thr Thr	Thr Ala Thr Val Pro	Thr
350		355	360
Thr Arg Pro Val	Val Arg Glu Pro Thr	Ala Leu Ser Ser Ser	Leu
365		370	375
Ala Pro Thr Trp	Leu Ser Pro Thr Ala	Pro Ala Thr Glu Ala	Pro
380		385	390
Ser Pro Pro Ser	Thr Ala Pro Pro Thr	Val Gly Pro Val Pro	Gln
395		400	405
Pro Gln Asp Cys	Pro Pro Ser Thr Cys	Leu Asn Gly Gly Thr	Cys
410		415	420
His Leu Gly Thr	Arg His His Leu Ala	Cys Leu Cys Pro Glu	Gly
425		430	435
Phe Thr Gly Leu	Tyr Cys Glu Ser Gln	Met Gly Gln Gly Thr	Arg
440		445	450
Pro Ser Pro Thr	Pro Val Thr Pro Arg	Pro Pro Arg Ser Leu	Thr
455		460	465
Leu Gly Ile Glu	Pro Val Ser Pro Thr	Ser Leu Arg Val Gly	Leu
470		475	480
Gln Arg Tyr Leu	Gln Gly Ser Ser Val	Gln Leu Arg Ser Leu	Arg
485		490	495
Leu Thr Tyr Arg	Asn Leu Ser Gly Pro	Asp Lys Arg Leu Val	Thr
500		505	510
Leu Arg Leu Pro	Ala Ser Leu Ala Glu	Tyr Thr Val Thr Gln	Leu
515		520	525
Arg Pro Asn Ala	Thr Tyr Ser Val Cys	Val Met Pro Leu Gly	Pro
530		535	540
Gly Arg Val Pro	Glu Gly Glu Glu Ala	Cys Gly Glu Ala His	Thr
545		550	555
Pro Pro Ala Val	His Ser Asn His Ala	Pro Val Thr Gln Ala	Arg
560		565	570
Glu Gly Asn Leu	Pro Leu Leu Ile Ala	Pro Ala Leu Ala Ala	Val
575		580	585
Leu Leu Ala Ala	Leu Ala Ala Val Gly	Ala Ala Tyr Cys Val	Arg
590		595	600
Arg Gly Arg Ala	Met Ala Ala Ala Ala	Gln Asp Lys Gly Gln	Val
605		610	615
Gly Pro Gly Ala	Gly Pro Leu Glu Leu	Glu Gly Val Lys Val	Pro
620		625	630
Leu Glu Pro Gly	Pro Lys Ala Thr Glu	Gly Gly Gly Glu Ala	Leu
635		640	645
Pro Ser Gly Ser	Glu Cys Glu Val Pro	Leu Met Gly Phe Pro	Gly
650		655	660

P2730P1sequencelisting.txt

Pro Gly Leu Gln Ser Pro Leu His Ala Lys Pro Tyr Ile
665 670

<210> 53
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 53
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<210> 54
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<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 54
ttgctcacat ccagctcctg cagg 24

<210> 55
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<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

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<210> 56
<211> 3462
<212> DNA
<213> Homo sapiens

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cccagccaca acgacactgg atttataccta taacctcctt tttcaactcc 300
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P2730P1sequencelisting.txt

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 tatgaaatgc aacgaaatct tagtttagaa aatgctaaga catcggttct 850
 attgtttaat aaagttgatt tactctggga cgaccttttc cttatcttac 900
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 ctgtctccac tttgatctgc cctggtatct caggatgcta ggtcaatgca 1950
 cacaacatg gcacaggggtt aggaaaacaa cccaagaaca actcaagaga 2000
 aatgtccgat tccacgcatt tatttcatac agtgaacatg attctctgtg 2050
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 gaaccattc cattctattg cattcccacc aggtatcata aactgaaagc 2350

P2730P1sequencelisting.txt

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 <213> Homo sapiens

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 Met Thr Asn Cys Ser Asn Met Ser Leu Arg Lys Val Pro Ala Asp
 35 40 45
 Leu Thr Pro Ala Thr Thr Thr Leu Asp Leu Ser Tyr Asn Leu Leu
 50 55 60
 Phe Gln Leu Gln Ser Ser Asp Phe His Ser Val Ser Lys Leu Arg
 65 70 75

P2730P1sequencelisting.txt

Val	Leu	Ile	Leu	Cys	His	Asn	Arg	Ile	Gln	Gln	Leu	Asp	Leu	Lys	80	85	90
Thr	Phe	Glu	Phe	Asn	Lys	Glu	Leu	Arg	Tyr	Leu	Asp	Leu	Ser	Asn	95	100	105
Asn	Arg	Leu	Lys	Ser	Val	Thr	Trp	Tyr	Leu	Leu	Ala	Gly	Leu	Arg	110	115	120
Tyr	Leu	Asp	Leu	Ser	Phe	Asn	Asp	Phe	Asp	Thr	Met	Pro	Ile	Cys	125	130	135
Glu	Glu	Ala	Gly	Asn	Met	Ser	His	Leu	Glu	Ile	Leu	Gly	Leu	Ser	140	145	150
Gly	Ala	Lys	Ile	Gln	Lys	Ser	Asp	Phe	Gln	Lys	Ile	Ala	His	Leu	155	160	165
His	Leu	Asn	Thr	Val	Phe	Leu	Gly	Phe	Arg	Thr	Leu	Pro	His	Tyr	170	175	180
Glu	Glu	Gly	Ser	Leu	Pro	Ile	Leu	Asn	Thr	Thr	Lys	Leu	His	Ile	185	190	195
Val	Leu	Pro	Met	Asp	Thr	Asn	Phe	Trp	Val	Leu	Leu	Arg	Asp	Gly	200	205	210
Ile	Lys	Thr	Ser	Lys	Ile	Leu	Glu	Met	Thr	Asn	Ile	Asp	Gly	Lys	215	220	225
Ser	Gln	Phe	Val	Ser	Tyr	Glu	Met	Gln	Arg	Asn	Leu	Ser	Leu	Glu	230	235	240
Asn	Ala	Lys	Thr	Ser	Val	Leu	Leu	Leu	Asn	Lys	Val	Asp	Leu	Leu	245	250	255
Trp	Asp	Asp	Leu	Phe	Leu	Ile	Leu	Gln	Phe	Val	Trp	His	Thr	Ser	260	265	270
Val	Glu	His	Phe	Gln	Ile	Arg	Asn	Val	Thr	Phe	Gly	Gly	Lys	Ala	275	280	285
Tyr	Leu	Asp	His	Asn	Ser	Phe	Asp	Tyr	Ser	Asn	Thr	Val	Met	Arg	290	295	300
Thr	Ile	Lys	Leu	Glu	His	Val	His	Phe	Arg	Val	Phe	Tyr	Ile	Gln	305	310	315
Gln	Asp	Lys	Ile	Tyr	Leu	Leu	Leu	Thr	Lys	Met	Asp	Ile	Glu	Asn	320	325	330
Leu	Thr	Ile	Ser	Asn	Ala	Gln	Met	Pro	His	Met	Leu	Phe	Pro	Asn	335	340	345
Tyr	Pro	Thr	Lys	Phe	Gln	Tyr	Leu	Asn	Phe	Ala	Asn	Asn	Ile	Leu	350	355	360
Thr	Asp	Glu	Leu	Phe	Lys	Arg	Thr	Ile	Gln	Leu	Pro	His	Leu	Lys	365	370	375
Thr	Leu	Ile	Leu	Asn	Gly	Asn	Lys	Leu	Glu	Thr	Leu	Ser	Leu	Val	380	385	390
Ser	Cys	Phe	Ala	Asn	Asn	Thr	Pro	Leu	Glu	His	Leu	Asp	Leu	Ser	395	400	405
Gln	Asn	Leu	Leu	Gln	His	Lys	Asn	Asp	Glu	Asn	Cys	Ser	Trp	Pro	410	415	420

P2730P1sequencelisting.txt

Glu Thr Val Val	Asn Met Asn Leu Ser	Tyr Asn Lys Leu Ser	Asp
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Ser Val Phe Arg	Cys Leu Pro Lys Ser	Ile Gln Ile Leu Asp	Leu
	440	445	450
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	455	460	465
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	470	475	480
Leu Pro Gly Cys	Ser His Phe Ser Arg	Leu Ser Val Leu Asn	Ile
	485	490	495
Glu Met Asn Phe	Ile Leu Ser Pro Ser	Leu Asp Phe Val Gln	Ser
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Cys Gln Glu Val	Lys Thr Leu Asn Ala	Gly Arg Asn Pro Phe	Arg
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Cys Thr Cys Glu	Leu Lys Asn Phe Ile	Gln Leu Glu Thr Tyr	Ser
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Glu Val Met Met	Val Gly Trp Ser Asp	Ser Tyr Thr Cys Glu	Tyr
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Glu Leu Ser Cys	Asn Thr Ala Leu Leu	Ile Val Thr Ile Val	Val
	575	580	585
Ile Met Leu Val	Leu Gly Leu Ala Val	Ala Phe Cys Cys Leu	His
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Phe Asp Leu Pro	Trp Tyr Leu Arg Met	Leu Gly Gln Cys Thr	Gln
	605	610	615
Thr Trp His Arg	Val Arg Lys Thr Thr	Gln Glu Gln Leu Lys	Arg
	620	625	630
Asn Val Arg Phe	His Ala Phe Ile Ser	Tyr Ser Glu His Asp	Ser
	635	640	645
Leu Trp Val Lys	Asn Glu Leu Ile Pro	Asn Leu Glu Lys Glu	Asp
	650	655	660
Gly Ser Ile Leu	Ile Cys Leu Tyr Glu	Ser Tyr Phe Asp Pro	Gly
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Lys Ser Ile Ser	Glu Asn Ile Val Ser	Phe Ile Glu Lys Ser	Tyr
	680	685	690
Lys Ser Ile Phe	Val Leu Ser Pro Asn	Phe Val Gln Asn Glu	Trp
	695	700	705
Cys His Tyr Glu	Phe Tyr Phe Ala His	His Asn Leu Phe His	Glu
	710	715	720
Asn Ser Asp His	Ile Ile Leu Ile Leu	Leu Glu Pro Ile Pro	Phe
	725	730	735
Tyr Cys Ile Pro	Thr Arg Tyr His Lys	Leu Lys Ala Leu Leu	Glu
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P2730P1sequencelisting.txt

755

760

765

Leu Phe Trp Ala Asn Leu Arg Ala Ala Ile Asn Val Asn Val Leu
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<220>

<223> Synthetic oligonucleotide probe

<400> 59

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<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 60

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<211> 3772

<212> DNA

<213> Homo sapiens

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P2730P1sequence1isting.txt

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 <213> Homo sapiens

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 35 40 45
 Tyr Tyr Ala Arg Pro Glu Pro Glu Leu Glu Thr Phe Ser Pro Pro
 50 55 60
 Leu Pro Ala Gly Pro Gly Glu Glu Trp Glu Arg Arg Pro Gln Glu
 65 70 75
 Pro Arg Pro Pro Lys Arg Ala Thr Lys Pro Lys Lys Ala Pro Lys
 80 85 90
 Arg Glu Lys Ser Ala Pro Glu Pro Pro Pro Gly Lys His Ser
 95 100 105
 Asn Lys Lys Val Met Arg Thr Lys Ser Ser Glu Lys Ala Ala Asn
 110 115 120
 Asp Asp His Ser Val Arg Val Ala Arg Glu Asp Val Arg Glu Ser
 125 130 135
 Cys Pro Pro Leu Gly Leu Glu Thr Leu Lys Ile Thr Asp Phe Gln
 140 145 150
 Leu His Ala Ser Thr Val Lys Arg Tyr Gly Leu Gly Ala His Arg
 155 160 165
 Gly Arg Leu Asn Ile Gln Ala Gly Ile Asn Glu Asn Asp Phe Tyr
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 Glu Val Asp Ala Arg Arg Leu Thr Arg Phe Thr Gly Val Ile Thr
 200 205 210
 Gln Gly Arg Asn Ser Leu Trp Leu Ser Asp Trp Val Thr Ser Tyr
 215 220 225
 Lys Val Met Val Ser Asn Asp Ser His Thr Trp Val Thr Val Lys
 230 235 240
 Asn Gly Ser Gly Asp Met Ile Phe Glu Gly Asn Ser Glu Lys Glu
 245 250 255
 Ile Pro Val Leu Asn Glu Leu Pro Val Pro Met Val Ala Arg Tyr
 260 265 270
 Ile Arg Ile Asn Pro Gln Ser Trp Phe Asp Asn Gly Ser Ile Cys
 275 280 285
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 290 295 300
 Tyr Tyr His Arg Arg Asn Glu Met Thr Thr Thr Asp Asp Leu Asp
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P2730P1sequencelisting.txt

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Lys	Ser	His	Gln	Gly	Leu	Lys	Leu	Tyr	Ala	Val	Glu	Ile	Ser	Asp					
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Leu	Leu	Val	Gln	Phe	Val	Cys	Gln	Glu	Tyr	Leu	Ala	Arg	Asn	Ala					
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Ile	Ala	Ile	Pro	Glu	Trp	Phe	Leu	Ser	Glu	Asn	Ala	Thr	Val	Ala					
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Val	Leu	Gly	Gly	Asn	Leu	Gln	Gly	Gly	Glu	Leu	Val	Val	Ala	Tyr					
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Pro	Tyr	Asp	Leu	Val	Arg	Ser	Pro	Trp	Lys	Thr	Gln	Glu	His	Thr					
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Ala	Ser	Thr	His	Arg	Leu	Met	Thr	Asp	Ala	Arg	Arg	Arg	Val	Cys					
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Tyr	Pro	His	Glu	Ser	Gln	Leu	Pro	Glu	Glu	Trp	Glu	Asn	Asn	Arg					
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Glu	Ser	Leu	Ile	Val	Phe	Met	Glu	Gln	Val	His	Arg	Gly	Ile	Lys					
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P2730P1sequencelisting.txt

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680 685 690
Ala Lys Ala Glu Gly Phe Thr Ala Ser Thr Lys Asn Cys Met Val
695 700 705
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710 715 720
Thr Asn Met Ala Arg Ile Arg Glu Ile Met Glu Lys Phe Gly Lys
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P2730P1sequencelisting.txt

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 tgaaggagat ggaaaaactg gtcatacagc tgaaggagag ttttggtgga 550
 agctcagaaa ttgttgacca gctggaggtg gagataagaa atatgactct 600
 cttggtagag aagcttgaga cactagacaa aaacaatgtc cttgccattc 650
 gccgagaaat cgtggctctg aagaccaagc tgaaagagtg tgaggcctct 700
 aaagatcaaa acaccctgt cgtccaccct cctcccactc cagggagctg 750
 tggatcatggt ggtgtggtga acatcagcaa accgtctgtg gttcagctca 800
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 tgggagactg ttggagtatt atagactgta caacacactg gatgatttgc 950
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 gaatattgcc agagttaacc tgaccaccaa cacgattgct gtgactcaaa 1100
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 cttgatttgg tgagttctct tgggaatcat ctgcctcttc aggcgcattt 1750
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 gggcctagtg aagcctactg tgaggaggct tcactagaag ccttaaatta 1850

P2730P1sequencelisting.txt

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 agctcctcga gggaccaaact ctccaacttt tttttcccct cactagcacc 2050
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 aaaa 2854

<210> 67
 <211> 510
 <212> PRT
 <213> Homo sapiens

<400> 67
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 20 25 30
 Ser Pro Gly Phe Ser Ser Phe Pro Gly Val Asp Ser Ser Ser Ser
 35 40 45
 Phe Ser Ser Ser Ser Arg Ser Gly Ser Ser Ser Ser Arg Ser Leu
 50 55 60
 Gly Ser Gly Gly Ser Val Ser Gln Leu Phe Ser Asn Phe Thr Gly
 65 70 75
 Ser Val Asp Asp Arg Gly Thr Cys Gln Cys Ser Val Ser Leu Pro
 80 85 90
 Asp Thr Thr Phe Pro Val Asp Arg Val Glu Arg Leu Glu Phe Thr
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P2730P1sequencelisting.txt

	95	100	105
Ala His Val Leu	Ser 110	Gln Lys Phe Glu Lys 115	Glu Leu Ser Lys Val 120
Arg Glu Tyr Val	Gln 125	Leu Ile Ser Val Tyr 130	Glu Lys Lys Leu Leu 135
Asn Leu Thr Val	Arg 140	Ile Asp Ile Met Glu 145	Lys Asp Thr Ile Ser 150
Tyr Thr Glu Leu	Asp 155	Phe Glu Leu Ile Lys 160	Val Glu Val Lys Glu 165
Met Glu Lys Leu	Val 170	Ile Gln Leu Lys Glu 175	Ser Phe Gly Gly Ser 180
Ser Glu Ile Val	Asp 185	Gln Leu Glu Val Glu 190	Ile Arg Asn Met Thr 195
Leu Leu Val Glu	Lys 200	Leu Glu Thr Leu Asp 205	Lys Asn Asn Val Leu 210
Ala Ile Arg Arg	Glu 215	Ile Val Ala Leu Lys 220	Thr Lys Leu Lys Glu 225
Cys Glu Ala Ser	Lys 230	Asp Gln Asn Thr Pro 235	Val Val His Pro Pro 240
Pro Thr Pro Gly	Ser 245	Cys Gly His Gly Gly 250	Val Val Asn Ile Ser 255
Lys Pro Ser Val	Val 260	Gln Leu Asn Trp Arg 265	Gly Phe Ser Tyr Leu 270
Tyr Gly Ala Trp	Gly 275	Arg Asp Tyr Ser Pro 280	Gln His Pro Asn Lys 285
Gly Leu Tyr Trp	Val 290	Ala Pro Leu Asn Thr 295	Asp Gly Arg Leu Leu 300
Glu Tyr Tyr Arg	Leu 305	Tyr Asn Thr Leu Asp 310	Asp Leu Leu Leu Tyr 315
Ile Asn Ala Arg	Glu 320	Leu Arg Ile Thr Tyr 325	Gly Gln Gly Ser Gly 330
Thr Ala Val Tyr	Asn 335	Asn Asn Met Tyr Val 340	Asn Met Tyr Asn Thr 345
Gly Asn Ile Ala	Arg 350	Val Asn Leu Thr Thr 355	Asn Thr Ile Ala Val 360
Thr Gln Thr Leu	Pro 365	Asn Ala Ala Tyr Asn 370	Asn Arg Phe Ser Tyr 375
Ala Asn Val Ala	Trp 380	Gln Asp Ile Asp Phe 385	Ala Val Asp Glu Asn 390
Gly Leu Trp Val	Ile 395	Tyr Ser Thr Glu Ala 400	Ser Thr Gly Asn Met 405
Val Ile Ser Lys	Leu 410	Asn Asp Thr Thr Leu 415	Gln Val Leu Asn Thr 420
Trp Tyr Thr Lys	Gln 425	Tyr Lys Pro Ser Ala 430	Ser Asn Ala Phe Met 435

P2730P1sequencelisting.txt

Val	Cys	Gly	Val	Leu	Tyr	Ala	Thr	Arg	Thr	Met	Asn	Thr	Arg	Thr
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Glu	Glu	Ile	Phe	Tyr	Tyr	Tyr	Asp	Thr	Asn	Thr	Gly	Lys	Glu	Gly
				455					460					465
Lys	Leu	Asp	Ile	Val	Met	His	Lys	Met	Gln	Glu	Lys	Val	Gln	Ser
				470					475					480
Ile	Asn	Tyr	Asn	Pro	Phe	Asp	Gln	Lys	Leu	Tyr	Val	Tyr	Asn	Asp
				485					490					495
Gly	Tyr	Leu	Leu	Asn	Tyr	Asp	Leu	Ser	Val	Leu	Gln	Lys	Pro	Gln
				500					505					510

<210> 68
 <211> 410
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 206, 217, 387
 <223> unknown base

<400> 68
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 cctgtcgtcc accctcctcc cactccaggg agctgtgggc atggtgggtg 100
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 cttatctata tgggtgcttgg ggtagggatt actctcccca gcatccaaac 200
 aaaggngatgt attggngggc gccattgaat acagatggga gactgttgga 250
 gtattataga ctgtacaacc cactggatga tttgctattg tatataaatg 300
 ctcgagagtt gcggatcacc tatggccaag gtagtgggtac agcagtttac 350
 aacaacaaca tgtacgtcaa catgtacaac accgggnata ttgccagagt 400
 taacctgacc 410

<210> 69
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 69
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<210> 70
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 70
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<210> 71
 <211> 42

P2730P1sequencelisting.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 71

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<210> 72

<211> 3127

<212> DNA

<213> Homo sapiens

<400> 72

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tggggctgtg ctccatggcg agctggatac catgtttgtg tggaagtgcc 150
ccgtgtttgc tatgccgatg ctgtcctagt ggaaacaact ccactgtaac 200
tagattgatc tatgcacttt tcttgcttgt tggagtatgt gtagcttgtg 250
taatgttgat accaggaatg gaagaacaac tgaataagat tcctggattt 300
tgtgagaatg agaaagggtg tgtcccttgt aacattttgg ttggctataa 350
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tggggcattc ttcattccag aaggaaactt tacaactgtg tggttttatg 550
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agggaaactc agatgttggt atgcagcctt gttatcagct acagctctga 700
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caccgagctg tagataatga aagggatggt gtcacttaca gttattcctt 1250
ctttcacttc atgcttttcc tggcttact ttatatcatg atgaccctta 1300
ccaactggtc caggtatgaa ccctctcgtg agatgaaaag tcagtggaca 1350

P2730P1sequencelisting.txt

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 agtattccca acttttgtaa agttgtgtat gtttttgctt cccatgtaac 1550
 ttctccagtg ttctggcatg aattagattt tactgcttgt cattttgtta 1600
 ttttcttacc aagtgcattg atatgtgaag tagaatgaat tgcagaggaa 1650
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 cggtactaaa ttgaataacg agtaaataat cttacttggg tagagatggc 2050
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 taatgaagct tttaaaatct acaatttctt ctttaaaaat atttattaat 3000
 gtgaatggaa tataacaatt cagcttaatt ccccaacctt attctgtgtg 3050

P2730P1sequencelisting.txt

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atgaattcag agaaaaaaaa aaaaaaa 3127

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<211> 453
<212> PRT
<213> Homo sapiens

<400> 73
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20 25 30
Ser Gly Asn Asn Ser Thr Val Thr Arg Leu Ile Tyr Ala Leu Phe
35 40 45
Leu Leu Val Gly Val Cys Val Ala Cys Val Met Leu Ile Pro Gly
50 55 60
Met Glu Glu Gln Leu Asn Lys Ile Pro Gly Phe Cys Glu Asn Glu
65 70 75
Lys Gly Val Val Pro Cys Asn Ile Leu Val Gly Tyr Lys Ala Val
80 85 90
Tyr Arg Leu Cys Phe Gly Leu Ala Met Phe Tyr Leu Leu Leu Ser
95 100 105
Leu Leu Met Ile Lys Val Lys Ser Ser Ser Asp Pro Arg Ala Ala
110 115 120
Val His Asn Gly Phe Trp Phe Phe Lys Phe Ala Ala Ala Ile Ala
125 130 135
Ile Ile Ile Gly Ala Phe Phe Ile Pro Glu Gly Thr Phe Thr Thr
140 145 150
Val Trp Phe Tyr Val Gly Met Ala Gly Ala Phe Cys Phe Ile Leu
155 160 165
Ile Gln Leu Val Leu Leu Ile Asp Phe Ala His Ser Trp Asn Glu
170 175 180
Ser Trp Val Glu Lys Met Glu Glu Gly Asn Ser Arg Cys Trp Tyr
185 190 195
Ala Ala Leu Leu Ser Ala Thr Ala Leu Asn Tyr Leu Leu Ser Leu
200 205 210
Val Ala Ile Val Leu Phe Phe Val Tyr Tyr Thr His Pro Ala Ser
215 220 225
Cys Ser Glu Asn Lys Ala Phe Ile Ser Val Asn Met Leu Leu Cys
230 235 240
Val Gly Ala Ser Val Met Ser Ile Leu Pro Lys Ile Gln Glu Ser
245 250 255
Gln Pro Arg Ser Gly Leu Leu Gln Ser Ser Val Ile Thr Val Tyr
260 265 270
Thr Met Tyr Leu Thr Trp Ser Ala Met Thr Asn Glu Pro Glu Thr
275 280 285

P2730P1sequencelisting.txt

Asn	Cys	Asn	Pro	Ser	Leu	Leu	Ser	Ile	Ile	Gly	Tyr	Asn	Thr	Thr
				290					295					300
Ser	Thr	Val	Pro	Lys	Glu	Gly	Gln	Ser	Val	Gln	Trp	Trp	His	Ala
				305					310					315
Gln	Gly	Ile	Ile	Gly	Leu	Ile	Leu	Phe	Leu	Leu	Cys	Val	Phe	Tyr
				320					325					330
Ser	Ser	Ile	Arg	Thr	Ser	Asn	Asn	Ser	Gln	Val	Asn	Lys	Leu	Thr
				335					340					345
Leu	Thr	Ser	Asp	Glu	Ser	Thr	Leu	Ile	Glu	Asp	Gly	Gly	Ala	Arg
				350					355					360
Ser	Asp	Gly	Ser	Leu	Glu	Asp	Gly	Asp	Asp	Val	His	Arg	Ala	Val
				365					370					375
Asp	Asn	Glu	Arg	Asp	Gly	Val	Thr	Tyr	Ser	Tyr	Ser	Phe	Phe	His
				380					385					390
Phe	Met	Leu	Phe	Leu	Ala	Ser	Leu	Tyr	Ile	Met	Met	Thr	Leu	Thr
				395					400					405
Asn	Trp	Ser	Arg	Tyr	Glu	Pro	Ser	Arg	Glu	Met	Lys	Ser	Gln	Trp
				410					415					420
Thr	Ala	Val	Trp	Val	Lys	Ile	Ser	Ser	Ser	Trp	Ile	Gly	Ile	Val
				425					430					435
Leu	Tyr	Val	Trp	Thr	Leu	Val	Ala	Pro	Leu	Val	Leu	Thr	Asn	Arg
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<210> 74
 <211> 480
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 48, 163
 <223> unknown base

<400> 74
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 ataccatgtt tgtgtggaag tgccccgtgt ttgctatgcc gatgctgtcc 150
 tagtggaaac aantccactg taactagatt gatctatgca cttttcttgc 200
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 caactgaata agattcctgg attttgtgag aatgagaaag gtgttgtccc 300
 ttgtaacatt ttggttggct ataaagctgt atatcgtttg tgctttgggt 350
 tggctatgtt ctatcttctt ctctctttac taatgatcaa agtgaagagt 400
 agcagtgatc ctagagctgc agtgcacaat ggattttggt tctttaaatt 450
 tgctgcagca attgcaatta ttattggggc 480

<210> 75

P2730P1sequencelisting.txt

<211> 438
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 32, 65, 92, 121, 142, 154, 170, 293, 315, 323
 <223> unknown base

<400> 75
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 tgctgtccta gtggaaacaa ntccactgta attagattga tntatgcact 150
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 tggaagaaca actgaataag attcctggat tttgtgagaa tgagaaaggt 250
 gttgtccctt gtaacatttt ggttggctat aaagctgtat atngtttgtg 300
 ctttggtttg gctangttct atnttcttct ctctttacta atgatcaaag 350
 tgaagagtag cagtgtcct agagctgcag tgcacaatgg attttggttt 400
 tttaaatttg ctgcagcaat tgcaattatt attggggc 438

<210> 76
 <211> 473
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 48
 <223> unknown base

<400> 76
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 gtttgtgtgg aagtgccccg tgtttgctat gccgatgctg tcctagtggg 150
 aacaactcca ctgtaactag attgatctat gcacttttct tgcttggttg 200
 agtatgtgta gcitgtgtaa tgttgatacc aggaatggaa gaacaactga 250
 ataagattcc tggattttgt gagaatgaga aagggtgttg cccttgtaac 300
 attttggttg gctataaagc tgtatatcgt ttgtgctttg gtttggttat 350
 gttctatctt cttctctctt tactaatgat caaagtgaag agtagcagt 400
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 gcaattgcaa ttattatttg ggc 473

<210> 77
 <211> 666
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 21, 111
 <223> unknown base

P2730P1sequencelisting.txt

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 caggattgga ngaacaactg aataagattc ctggattttt gtgagaatga 150
 gaaaggtggt gtccccttgt aacatttttg gttggctata aagctgtata 200
 tcgtttgtgc tttggttttg ctatgttcta tcttcttctc tctttactaa 250
 tgatcaaagt gaagagtagc agtgatccta gagctgcagt gcacaatgga 300
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 gcacattcat ggaatgaatc gtgggttgaa aaaatggaag aagggaactc 500
 gagatgttgg tatgcagcct tgttatcagc tacagctctg aattatctgc 550
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<210> 78
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 78
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<210> 79
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 79
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<210> 80
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 80
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<210> 81
 <211> 23
 <212> DNA
 <213> Artificial Sequence

P2730P1sequencelisting.txt

<220>

<223> Synthetic oligonucleotide probe

<400> 81

gagcatgccca ccactggact gac 23

<210> 82

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 82

gccgatgctg tcctagtggga acaactcca ctgtaactag attgatctat 50

gcac 54

<210> 83

<211> 3906

<212> DNA

<213> Homo sapiens

<400> 83

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aatagcactg gctaccggac agctttcttc gggaagtatc ttaatgaata 1050

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Ile Ile Leu Val Leu Thr Asp Asp Gln Asp Val Glu Leu Gly Ser
 50 55 60
 Met Gln Val Met Asn Lys Thr Arg Arg Ile Met Glu Gln Gly Gly
 65 70 75

P2730P1sequencelisting.txt

Ala His Phe Ile	Asn 80	Ala Phe Val Thr	Thr 85	Pro Met Cys Cys	Pro 90
Ser Arg Ser Ser	Ile 95	Leu Thr Gly Lys	Tyr 100	Val His Asn His	Asn 105
Thr Tyr Thr Asn	Asn 110	Glu Asn Cys Ser	Ser 115	Pro Ser Trp Gln	Ala 120
Gln His Glu Ser	Arg 125	Thr Phe Ala Val	Tyr 130	Leu Asn Ser Thr	Gly 135
Tyr Arg Thr Ala	Phe 140	Phe Gly Lys Tyr	Leu 145	Asn Glu Tyr Asn	Gly 150
Ser Tyr Val Pro	Pro 155	Gly Trp Lys Glu	Trp 160	Val Gly Leu Leu	Lys 165
Asn Ser Arg Phe	Tyr 170	Asn Tyr Thr Leu	Cys 175	Arg Asn Gly Val	Lys 180
Glu Lys His Gly	Ser 185	Asp Tyr Ser Lys	Asp 190	Tyr Leu Thr Asp	Leu 195
Ile Thr Asn Asp	Ser 200	Val Ser Phe Phe	Arg 205	Thr Ser Lys Lys	Met 210
Tyr Pro His Arg	Pro 215	Val Leu Met Val	Ile 220	Ser His Ala Ala	Pro 225
His Gly Pro Glu	Asp 230	Ser Ala Pro Gln	Tyr 235	Ser Arg Leu Phe	Pro 240
Asn Ala Ser Gln	His 245	Ile Thr Pro Ser	Tyr 250	Asn Tyr Ala Pro	Asn 255
Pro Asp Lys His	Trp 260	Ile Met Arg Tyr	Thr 265	Gly Pro Met Lys	Pro 270
Ile His Met Glu	Phe 275	Thr Asn Met Leu	Gln 280	Arg Lys Arg Leu	Gln 285
Thr Leu Met Ser	Val 290	Asp Asp Ser Met	Glu 295	Thr Ile Tyr Asn	Met 300
Leu Val Glu Thr	Gly 305	Glu Leu Asp Asn	Thr 310	Tyr Ile Val Tyr	Thr 315
Ala Asp His Gly	Tyr 320	His Ile Gly Gln	Phe 325	Gly Leu Val Lys	Gly 330
Lys Ser Met Pro	Tyr 335	Glu Phe Asp Ile	Arg 340	Val Pro Phe Tyr	Val 345
Arg Gly Pro Asn	Val 350	Glu Ala Gly Cys	Leu 355	Asn Pro His Ile	Val 360
Leu Asn Ile Asp	Leu 365	Ala Pro Thr Ile	Leu 370	Asp Ile Ala Gly	Leu 375
Asp Ile Pro Ala	Asp 380	Met Asp Gly Lys	Ser 385	Ile Leu Lys Leu	Leu 390
Asp Thr Glu Arg	Pro 395	Val Asn Arg Phe	His 400	Leu Lys Lys Lys	Met 405
Arg Val Trp Arg	Asp 410	Ser Phe Leu Val	Glu 415	Arg Gly Lys Leu	Leu 420

P2730P1sequencelisting.txt

His	Lys	Arg	Asp	Asn	Asp	Lys	Val	Asp	Ala	Gln	Glu	Glu	Asn	Phe
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Leu	Pro	Lys	Tyr	Gln	Arg	Val	Lys	Asp	Leu	Cys	Gln	Arg	Ala	Glu
				440					445					450
Tyr	Gln	Thr	Ala	Cys	Glu	Gln	Leu	Gly	Gln	Lys	Trp	Gln	Cys	Val
				455					460					465
Glu	Asp	Ala	Thr	Gly	Lys	Leu	Lys	Leu	His	Lys	Cys	Lys	Gly	Pro
				470					475					480
Met	Arg	Leu	Gly	Gly	Ser	Arg	Ala	Leu	Ser	Asn	Leu	Val	Pro	Lys
				485					490					495
Tyr	Tyr	Gly	Gln	Gly	Ser	Glu	Ala	Cys	Thr	Cys	Asp	Ser	Gly	Asp
				500					505					510
Tyr	Lys	Leu	Ser	Leu	Ala	Gly	Arg	Arg	Lys	Lys	Leu	Phe	Lys	Lys
				515					520					525
Lys	Tyr	Lys	Ala	Ser	Tyr	Val	Arg	Ser	Arg	Ser	Ile	Arg	Ser	Val
				530					535					540
Ala	Ile	Glu	Val	Asp	Gly	Arg	Val	Tyr	His	Val	Gly	Leu	Gly	Asp
				545					550					555
Ala	Ala	Gln	Pro	Arg	Asn	Leu	Thr	Lys	Arg	His	Trp	Pro	Gly	Ala
				560					565					570
Pro	Glu	Asp	Gln	Asp	Asp	Lys	Asp	Gly	Gly	Asp	Phe	Ser	Gly	Thr
				575					580					585
Gly	Gly	Leu	Pro	Asp	Tyr	Ser	Ala	Ala	Asn	Pro	Ile	Lys	Val	Thr
				590					595					600
His	Arg	Cys	Tyr	Ile	Leu	Glu	Asn	Asp	Thr	Val	Gln	Cys	Asp	Leu
				605					610					615
Asp	Leu	Tyr	Lys	Ser	Leu	Gln	Ala	Trp	Lys	Asp	His	Lys	Leu	His
				620					625					630
Ile	Asp	His	Glu	Ile	Glu	Thr	Leu	Gln	Asn	Lys	Ile	Lys	Asn	Leu
				635					640					645
Arg	Glu	Val	Arg	Gly	His	Leu	Lys	Lys	Lys	Arg	Pro	Glu	Glu	Cys
				650					655					660
Asp	Cys	His	Lys	Ile	Ser	Tyr	His	Thr	Gln	His	Lys	Gly	Arg	Leu
				665					670					675
Lys	His	Arg	Gly	Ser	Ser	Leu	His	Pro	Phe	Arg	Lys	Gly	Leu	Gln
				680					685					690
Glu	Lys	Asp	Lys	Val	Trp	Leu	Leu	Arg	Glu	Gln	Lys	Arg	Lys	Lys
				695					700					705
Lys	Leu	Arg	Lys	Leu	Leu	Lys	Arg	Leu	Gln	Asn	Asn	Asp	Thr	Cys
				710					715					720
Ser	Met	Pro	Gly	Leu	Thr	Cys	Phe	Thr	His	Asp	Asn	Gln	His	Trp
				725					730					735
Gln	Thr	Ala	Pro	Phe	Trp	Thr	Leu	Gly	Pro	Phe	Cys	Ala	Cys	Thr
				740					745					750
Ser	Ala	Asn	Asn	Asn	Thr	Tyr	Trp	Cys	Met	Arg	Thr	Ile	Asn	Glu

P2730P1sequencelisting.txt

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Tyr Phe Asp Leu	Asn Thr Asp Pro Tyr	Gln Leu Met Asn Ala	Val	
	785	790	795	
Asn Thr Leu Asp	Arg Asp Val Leu Asn	Gln Leu His Val Gln	Leu	
	800	805	810	
Met Glu Leu Arg	Ser Cys Lys Gly Tyr	Lys Gln Cys Asn Pro	Arg	
	815	820	825	
Thr Arg Asn Met	Asp Leu Asp Gly Gly	Ser Tyr Glu Gln Tyr	Arg	
	830	835	840	
Gln Phe Gln Arg	Arg Lys Trp Pro Glu	Met Lys Arg Pro Ser	Ser	
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Lys Ser Leu Gly	Gln Leu Trp Glu Gly	Trp Glu Gly		
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<220>
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<400> 87
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<210> 88
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<220>
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<400> 88
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<210> 89

P2730P1sequencelisting.txt

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<400> 89
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<210> 91
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<220>
<223> Synthetic oligonucleotide probe

<400> 91
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<210> 92
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<223> Synthetic oligonucleotide probe

<400> 92
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<210> 93
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P2730P1sequencelisting.txt

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aaaaaaaaa aaaaaaaaaa a 971

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<212> PRT
<213> Homo sapiens

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Cys Leu Phe His Gly Arg Gln Asp Cys Asp Val Glu Arg Asn Arg
35 40 45
Thr Ala Ala Gly Gly Asn Arg Val Arg Arg Ala Gln Pro Trp Pro
50 55 60
Phe Arg Arg Arg Gly His Leu Gly Ile Phe His His His Arg His
65 70 75
Pro Gly His Val Ser His Val Pro Asn Val Gly Leu His His His
80 85 90
His His Pro Arg His Thr Pro His His Leu His His His His His
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Pro His Arg His His Pro Arg His Ala Arg
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<210> 96
<211> 1312
<212> DNA
<213> Homo sapiens

<400> 96

P2730P1sequencelisting.txt

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aaaaaaaaaa aa 1312

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 <212> PRT
 <213> Homo sapiens

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 20 25 30
 Leu Ala Gly Val Glu Val Ser Ala Gly Ser Pro Pro Ile Arg Asn
 35 40 45

P2730P1sequencelisting.txt

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Gly Arg Leu Phe Thr Glu Ser Cys Ser Ile Ser Pro Lys Leu Arg
      65      70      75
Ser Ile Ala Val Tyr Tyr Asp Asn Pro His Met Val Pro Pro Asp
      80      85      90
Lys Cys Arg Cys Ala Val Gly Ser Ile Leu Ser Glu Gly Glu Glu
      95     100     105
Ser Pro Ser Pro Glu Leu Ile Asp Leu Tyr Gln Lys Phe Gly Phe
     110     115     120
Lys Val Phe Ser Phe Pro Ala Pro Ser His Val Val Thr Ala Thr
     125     130     135
Phe Pro Tyr Thr Thr Ile Leu Ser Ile Trp Leu Ala Thr Arg Arg
     140     145     150
Val His Pro Ala Leu Asp Thr Tyr Ile Lys Glu Arg Lys Leu Cys
     155     160     165
Ala Tyr Pro Arg Leu Glu Ile Tyr Gln Glu Asp Gln Ile His Phe
     170     175     180
Met Cys Pro Leu Ala Arg Gln Gly Asp Phe Tyr Val Pro Glu Met
     185     190     195
Lys Glu Thr Glu Trp Lys Trp Arg Gly Leu Val Glu Ala Ile Asp
     200     205     210
Thr Gln Val Asp Gly Thr Gly Ala Asp Thr Met Ser Asp Thr Ser
     215     220     225
Ser Val Ser Leu Glu Val Ser Pro Gly Ser Arg Glu Thr Ser Ala
     230     235     240
Ala Thr Leu Ser Pro Gly Ala Ser Ser Arg Gly Trp Asp Asp Gly
     245     250     255
Asp Thr Arg Ser Glu His Ser Tyr Ser Glu Ser Gly Ala Ser Gly
     260     265     270
Ser Ser Phe Glu Glu Leu Asp Leu Glu Gly Glu Gly Pro Leu Gly
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Glu Ser Arg Leu Asp Pro Gly Thr Glu Pro Leu Gly Thr Thr Lys
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 ctgaggctgg gctcgaaacc gaaagtccc tccggaccct ccaagtggag 200
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P2730P1sequencelisting.txt

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acctatacag aaaggccaat agacccaaag tctccaaaaa gaagctcaag 650
gaagagaaac gaaacaagag caaaaagaaa taataaataa taaattttaa 700
aaaacttaaa aaaaaaaaaa aaaaa 725

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<212> PRT
<213> Homo sapiens

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20 25 30
Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu
35 40 45
Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu
50 55 60
His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp
65 70 75
Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
80 85 90
Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val
95 100 105
Gly Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly
110 115 120
Lys Arg Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln
125 130 135
Tyr Asp Val Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu
140 145 150
Lys Leu Val Lys Gly Ile Leu Pro Leu Val Gly Met Ala Met Val
155 160 165
Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu Tyr Arg Lys Ala
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Asn Lys Ser Lys Lys Lys
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actaatccga gccaaactact ggctaaagct ggtgaagggc attttgcctc 550
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<210> 101
<211> 543
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accctctggt tatagaactt ggccaaaagc aggtgattcc aggtctggag 200
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P2730P1sequencelisting.txt

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 gagggcttga gatgctcaga atgcattgac tggggggaaa agcgcaatac 200
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 <211> 157
 <212> PRT
 <213> Homo sapiens

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P2730P1sequencelisting.txt

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35 40 45
Tyr Pro Thr Met Lys Asp Phe Asn His Ser Tyr His Ala Cys Gly
50 55 60
Val Ile Ala Thr Ile Ala Phe Leu Met Ile Asn Ala Val Ser Asn
65 70 75
Gly Gln Val Arg Gly Asp Ser Tyr Ser Glu Gly Cys Leu Gly Gln
80 85 90
Thr Gly Ala Arg Ile Trp Leu Phe Val Gly Phe Met Leu Ala Phe
95 100 105
Gly Ser Leu Ile Ala Ser Met Trp Ile Leu Phe Gly Gly Tyr Val
110 115 120
Ala Lys Glu Lys Asp Ile Val Tyr Pro Gly Ile Ala Val Phe Phe
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Arg Thr Glu Asp Leu Trp Gln
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<222> 31, 39, 108, 145, 179, 219, 412, 479
<223> unknown base

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 atagcaacca tagccttcnt aatgattaat gcagtatcga atggacaagt 250
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<210> 106
 <211> 466
 <212> DNA
 <213> Homo sapiens

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 <222> 26, 38, 81, 115, 207, 329, 380, 446, 449
 <223> unknown base

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 acagggtggt ggattatcat agatgcagct gttatttatc ccaccatgaa 200
 agatttnaac cactcatacc atgcctgtgg tgttatagca accatagcct 250
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<210> 107
 <211> 377
 <212> DNA
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 <221> unsure
 <222> 52, 67, 70, 78, 105, 144, 150, 209, 266, 268, 282, 310, 331, 356
 <223> unknown base

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P2730P1sequencelisting.txt

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 taaagnaaaa gacatagtat accctgt 377

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 <222> 12, 25, 65, 130, 437, 537
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<210> 109
 <211> 23
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 <213> Artificial Sequence

<220>
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<400> 109
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<210> 110
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<220>
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P2730P1sequencelisting.txt

<210> 111
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<220>
 <223> Synthetic oligonucleotide probe

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 <212> DNA
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P2730P1sequencelisting.txt

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 <211> 610
 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Thr Asp Lys Glu Ala Arg Lys Lys Val Leu Lys Gln Ala Phe Ser
 50 55 60
 Ala Asn Gln Val Pro Glu Lys Leu Asp Val Val Val Ile Gly Ser
 65 70 75
 Gly Phe Gly Gly Leu Ala Ala Ala Ala Ile Leu Ala Lys Ala Gly
 80 85 90
 Lys Arg Val Leu Val Leu Glu Gln His Thr Lys Ala Gly Gly Cys
 95 100 105
 Cys His Thr Phe Gly Lys Asn Gly Leu Glu Phe Asp Thr Gly Ile
 110 115 120
 His Tyr Ile Gly Arg Met Glu Glu Gly Ser Ile Gly Arg Phe Ile
 125 130 135
 Leu Asp Gln Ile Thr Glu Gly Gln Leu Asp Trp Ala Pro Leu Ser
 140 145 150
 Ser Pro Phe Asp Ile Met Val Leu Glu Gly Pro Asn Gly Arg Lys
 155 160 165
 Glu Tyr Pro Met Tyr Ser Gly Glu Lys Ala Tyr Ile Gln Gly Leu
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 Lys Glu Lys Phe Pro Gln Glu Glu Ala Ile Ile Asp Lys Tyr Ile
 185 190 195
 Lys Leu Val Lys Val Val Ser Ser Gly Ala Pro His Ala Ile Leu
 200 205 210
 Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu Leu Asp Arg Cys
 215 220 225
 Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala Ser Thr Gln
 230 235 240
 Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser Glu Leu
 245 250 255
 Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr Pro
 260 265 270
 Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr
 275 280 285
 Met Lys Gly Gly Phe Tyr Pro Arg Gly Gly Ser Ser Glu Ile Ala
 290 295 300

P2730P1sequencelisting.txt

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Ala Cys Gly Val	Ser 335	Val Lys Lys Gly	His 340	Glu Leu Val Asn	Ile 345
Tyr Cys Pro Ile	Val 350	Val Ser Asn Ala	Gly 355	Leu Phe Asn Thr	Tyr 360
Glu His Leu Leu	Pro 365	Gly Asn Ala Arg	Cys 370	Leu Pro Gly Val	Lys 375
Gln Gln Leu Gly	Thr 380	Val Arg Pro Gly	Leu 385	Gly Met Thr Ser	Val 390
Phe Ile Cys Leu	Arg 395	Gly Thr Lys Glu	Asp 400	Leu His Leu Pro	Ser 405
Thr Asn Tyr Tyr	Val 410	Tyr Tyr Asp Thr	Asp 415	Met Asp Gln Ala	Met 420
Glu Arg Tyr Val	Ser 425	Met Pro Arg Glu	Glu 430	Ala Ala Glu His	Ile 435
Pro Leu Leu Phe	Phe 440	Ala Phe Pro Ser	Ala 445	Lys Asp Pro Thr	Trp 450
Glu Asp Arg Phe	Pro 455	Gly Arg Ser Thr	Met 460	Ile Met Leu Ile	Pro 465
Thr Ala Tyr Glu	Trp 470	Phe Glu Glu Trp	Gln 475	Ala Glu Leu Lys	Gly 480
Lys Arg Gly Ser	Asp 485	Tyr Glu Thr Phe	Lys 490	Asn Ser Phe Val	Glu 495
Ala Ser Met Ser	Val 500	Val Leu Lys Leu	Phe 505	Pro Gln Leu Glu	Gly 510
Lys Val Glu Ser	Val 515	Thr Ala Gly Ser	Pro 520	Leu Thr Asn Gln	Phe 525
Tyr Leu Ala Ala	Pro 530	Arg Gly Ala Cys	Tyr 535	Gly Ala Asp His	Asp 540
Leu Gly Arg Leu	His 545	Pro Cys Val Met	Ala 550	Ser Leu Arg Ala	Gln 555
Ser Pro Ile Pro	Asn 560	Leu Tyr Leu Thr	Gly 565	Gln Asp Ile Phe	Thr 570
Cys Gly Leu Val	Gly 575	Ala Leu Gln Gly	Ala 580	Leu Leu Cys Ser	Ser 585
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 <213> Homo sapiens

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<213> Homo sapiens

<400> 115

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35 40 45

Lys Asp His Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe
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Leu Asp Ser Glu Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu
65 70 75

Glu Asp Ser Leu Lys Ser Gln Glu Gly Glu Ser Val Thr Glu Asp
80 85 90

Ile Ser Phe Leu Glu Ser Pro Asn Pro Glu Asn Lys Asp Tyr Glu
95 100 105

Glu Pro Lys Lys Val Arg Lys Pro Ala Leu Thr Ala Ile Glu Gly
110 115 120

Thr Ala His Gly Glu Pro Cys His Phe Pro Phe Leu Phe Leu Asp
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Gly Phe Cys Glu Thr Glu Glu Glu Ala Ala Lys Arg Arg Gln Met
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Gln Glu Ala Glu Met Met Tyr Gln Thr Gly Met Lys Ile Leu Asn
185 190 195

Gly Ser Asn Lys Lys Ser Gln Lys Arg Glu Ala Tyr Arg Tyr Leu
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Gln Lys Ala Ala Ser Met Asn His Thr Lys Ala Leu Glu Arg Val
215 220 225

Ser Tyr Ala Leu Leu Phe Gly Asp Tyr Leu Pro Gln Asn Ile Gln
230 235 240

Ala Ala Arg Glu Met Phe Glu Lys Leu Thr Glu Glu Gly Ser Pro
245 250 255

Lys Gly Gln Thr Ala Leu Gly Phe Leu Tyr Ala Ser Gly Leu Gly
260 265 270

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290

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300

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 Ala Gly Ser Ala Pro Arg Tyr Leu Leu Tyr Tyr Arg Ser Glu Glu
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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 65 70 75
 Arg Phe Arg Val Leu Pro Gln Gly Leu Lys Val Lys Gln Val Glu
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 Arg Glu Asp Ala Gly Val Tyr Val Cys Lys Ala Thr Asn Gly Phe
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 Gly Ser Leu Ser Val Asn Tyr Thr Leu Val Val Leu Asp Asp Ile
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 Gln Glu Asp Pro Ala Ser Gln Gln Trp Ala Arg Pro Arg Phe Thr
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 Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val Ser Asn
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 Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val
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P2730P1sequencelisting.txt

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Asp Asp Ala Gly	Met 335	Tyr Ile Cys Leu Gly 340	Ala Asn Thr Met	Gly 345
Tyr Ser Phe Arg	Ser 350	Ala Phe Leu Thr Val 355	Leu Pro Asp Pro	Lys 360
Pro Pro Gly Pro	Pro 365	Val Ala Ser Ser Ser 370	Ser Ala Thr Ser	Leu 375
Pro Trp Pro Val	Val 380	Ile Gly Ile Pro Ala 385	Gly Ala Val Phe	Ile 390
Leu Gly Thr Leu	Leu 395	Leu Trp Leu Cys Gln 400	Ala Gln Lys Lys	Pro 405
Cys Thr Pro Ala	Pro 410	Ala Pro Pro Leu Pro 415	Gly His Arg Pro	Pro 420
Gly Thr Ala Arg	Asp 425	Arg Ser Gly Asp Lys 430	Asp Leu Pro Ser	Leu 435
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Gly Ser Pro Ala	Ala 455	Pro Gln His Leu Leu 460	Gly Pro Gly Pro	Val 465
Ala Gly Pro Lys	Leu 470	Tyr Pro Lys Leu Tyr 475	Thr Asp Ile His	Thr 480
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<400> 121

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<210> 123

<211> 4420

<212> DNA

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P2730P1sequencelisting.txt

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<211> 1184

<212> PRT

<213> Homo sapiens

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Asn Ile Asp Tyr	Pro Gly Gly Lys Gly Asp	Tyr Glu Arg Leu Asp	
	65	70	75
Ala Ile Arg Phe	Tyr Tyr Gly Asp Arg Val	Cys Ala Arg Pro Leu	
	80	85	90
Arg Leu Glu Ala	Arg Thr Thr Asp Trp Thr	Pro Ala Gly Ser Thr	
	95	100	105
Gly Gln Val Val	His Gly Ser Pro Arg Glu	Gly Phe Trp Cys Leu	
	110	115	120
Asn Arg Glu Gln	Arg Pro Gly Gln Asn Cys	Ser Asn Tyr Thr Val	
	125	130	135
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	140	145	150
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	155	160	165
Gly Gln Thr Gly	Val Gln Thr Arg Thr Arg	Ile Cys Leu Ala Glu	
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	185	190	195
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	200	205	210
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	215	220	225
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	245	250	255
Thr Asp Ser Asp	Gly Arg Phe Arg Ile Pro	Gly Leu Cys Pro Asp	
	260	265	270
Gly Lys Ser Ile	Leu Lys Ile Thr Lys Val	Lys Phe Ala Pro Ile	
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Val Leu Thr Met	Pro Lys Thr Ser Leu Lys	Ala Ala Thr Ile Lys	
	290	295	300
Ala Glu Phe Val	Arg Ala Glu Thr Pro Tyr	Met Val Met Asn Pro	
	305	310	315
Glu Thr Lys Ala	Arg Arg Ala Gly Gln Ser	Val Ser Leu Cys Cys	
	320	325	330
Lys Ala Thr Gly	Lys Pro Arg Pro Asp Lys	Tyr Phe Trp Tyr His	
	335	340	345

P2730P1sequencelisting.txt

Asn Asp Thr Leu	Leu Asp Pro Ser Leu Tyr Lys His Glu Ser	Lys
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Cys Lys Ala Gln	Ser Asp Ala Gly Ala Val Lys Ser Lys Val	Ala
380	385	390
Gln Leu Ile Val	Thr Ala Ser Asp Glu Thr Pro Cys Asn Pro	Val
395	400	405
Pro Glu Ser Tyr	Leu Ile Arg Leu Pro His Asp Cys Phe Gln	Asn
410	415	420
Ala Thr Asn Ser	Phe Tyr Tyr Asp Val Gly Arg Cys Pro Val	Lys
425	430	435
Thr Cys Ala Gly	Gln Gln Asp Asn Gly Ile Arg Cys Arg Asp	Ala
440	445	450
Val Gln Asn Cys	Cys Gly Ile Ser Lys Thr Glu Glu Arg Glu	Ile
455	460	465
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470	475	480
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485	490	495
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500	505	510
Tyr Met Gly Asn	Ser Arg Val Ser Met Thr Gly Tyr Lys Gly	Thr
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Phe Thr Leu His	Val Pro Gln Asp Thr Glu Arg Leu Val Leu	Thr
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Phe Val Asp Arg	Leu Gln Lys Phe Val Asn Thr Thr Lys Val	Leu
545	550	555
Pro Phe Asn Lys	Lys Gly Ser Ala Val Phe His Glu Ile Lys	Met
560	565	570
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575	580	585
Ile Ile Pro Leu	Gly Glu Val Val Gly Glu Asp Pro Met Ala	Glu
590	595	600
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605	610	615
Tyr Ile Gly Lys	Val Lys Ala Ser Val Thr Phe Leu Asp Pro	Arg
620	625	630
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635	640	645
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650	655	660
Ser Val Asp Phe	Arg Asp Glu Val Thr Ser Glu Pro Leu Asn	Ala
665	670	675
Gly Lys Val Lys	Val His Leu Asp Ser Thr Gln Val Lys Met	Pro
680	685	690

P2730P1sequencelisting.txt

Glu His Ile Ser	Thr 695	Val Lys Leu Trp	Ser 700	Leu Asn Pro Asp	Thr 705
Gly Leu Trp Glu	Glu 710	Glu Gly Asp Phe	Lys 715	Phe Glu Asn Gln	Arg 720
Arg Asn Lys Arg	Glu 725	Asp Arg Thr Phe	Leu 730	Val Gly Asn Leu	Glu 735
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Arg Cys Phe Val	Lys 755	Val Arg Ala Tyr	Arg 760	Ser Glu Arg Phe	Leu 765
Pro Ser Glu Gln	Ile 770	Gln Gly Val Val	Ile 775	Ser Val Ile Asn	Leu 780
Glu Pro Arg Thr	Gly 785	Phe Leu Ser Asn	Pro 790	Arg Ala Trp Gly	Arg 795
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Phe Cys Asp Asp	Gln 815	Ser Pro Asp Ala	Tyr 820	Ser Ala Tyr Val	Leu 825
Ala Ser Leu Ala	Gly 830	Glu Glu Leu Gln	Ala 835	Val Glu Ser Ser	Pro 840
Lys Phe Asn Pro	Asn 845	Ala Ile Gly Val	Pro 850	Gln Pro Tyr Leu	Asn 855
Lys Leu Asn Tyr	Arg 860	Arg Thr Asp His	Glu 865	Asp Pro Arg Val	Lys 870
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Ala Glu Glu Ser	Asn 890	Gly Pro Ile Tyr	Ala 895	Phe Glu Asn Leu	Arg 900
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Gln Ile Glu Gly	Asp 920	Arg Tyr Asp Tyr	Asn 925	Thr Val Pro Phe	Asn 930
Glu Asp Asp Pro	Met 935	Ser Trp Thr Glu	Asp 940	Tyr Leu Ala Trp	Trp 945
Pro Lys Pro Met	Glu 950	Phe Arg Ala Cys	Tyr 955	Ile Lys Val Lys	Ile 960
Val Gly Pro Leu	Glu 965	Val Asn Val Arg	Ser 970	Arg Asn Met Gly	Gly 975
Thr His Arg Arg	Thr 980	Val Gly Lys Leu	Tyr 985	Gly Ile Arg Asp	Val 990
Arg Ser Thr Arg	Asp 995	Arg Asp Gln Pro	Asn 1000	Val Ser Ala Ala	Cys 1005
Leu Glu Phe Lys	Cys 1010	Ser Gly Met Leu	Tyr 1015	Asp Gln Asp Arg	Val 1020
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P2730P1sequencelisting.txt

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Pro Leu Asp Pro Leu Gly His Asn Tyr Gly Ile Tyr Thr Val Thr
1070                               1075 1080
Asp Gln Asp Pro Arg Thr Ala Lys Glu Ile Ala Leu Gly Arg Cys
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Phe Asp Gly Thr Ser Asp Gly Ser Ser Arg Ile Met Lys Ser Asn
1100                               1105 1110
Val Gly Val Ala Leu Thr Phe Asn Cys Val Glu Arg Gln Val Gly
1115                               1120 1125
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P2730P1sequencelisting.txt

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<211> 438

<212> PRT

<213> Homo sapiens

<400> 129

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Asp Leu Cys Lys Thr Gln Ile Tyr Thr Glu Glu Gly Lys Val Trp
35 40 45

Asp Tyr Met Ala Cys Gln Pro Glu Ser Thr Asp Met Thr Lys Tyr
50 55 60

Leu Lys Val Lys Leu Asp Pro Pro Asp Ile Thr Cys Gly Asp Pro
Page 108

P2730P1sequencelisting.txt

65	70	75
Pro Glu Thr Phe Cys 80	Ala Met Gly Asn Pro 85	Tyr Met Cys Asn Asn 90
Glu Cys Asp Ala Ser 95	Thr Pro Glu Leu Ala 100	His Pro Pro Glu Leu 105
Met Phe Asp Phe Glu 110	Gly Arg His Pro Ser 115	Thr Phe Trp Gln Ser 120
Ala Thr Trp Lys Glu 125	Tyr Pro Lys Pro Leu 130	Gln Val Asn Ile Thr 135
Leu Ser Trp Ser Lys 140	Thr Ile Glu Leu Thr 145	Asp Asn Ile Val Ile 150
Thr Phe Glu Ser Gly 155	Arg Pro Asp Gln Met 160	Ile Leu Glu Lys Ser 165
Leu Asp Tyr Gly Arg 170	Thr Trp Gln Pro Tyr 175	Gln Tyr Tyr Ala Thr 180
Asp Cys Leu Asp Ala 185	Phe His Met Asp Pro 190	Lys Ser Val Lys Asp 195
Leu Ser Gln His Thr 200	Val Leu Glu Ile Ile 205	Cys Thr Glu Glu Tyr 210
Ser Thr Gly Tyr Thr 215	Thr Asn Ser Lys Ile 220	Ile His Phe Glu Ile 225
Lys Asp Arg Phe Ala 230	Leu Phe Ala Gly Pro 235	Arg Leu Arg Asn Met 240
Ala Ser Leu Tyr Gly 245	Gln Leu Asp Thr Thr 250	Lys Lys Leu Arg Asp 255
Phe Phe Thr Val Thr 260	Asp Leu Arg Ile Arg 265	Leu Leu Arg Pro Ala 270
Val Gly Glu Ile Phe 275	Val Asp Glu Leu His 280	Leu Ala Arg Tyr Phe 285
Tyr Ala Ile Ser Asp 290	Ile Lys Val Arg Gly 295	Arg Cys Lys Cys Asn 300
Leu His Ala Thr Val 305	Cys Val Tyr Asp Asn 310	Ser Lys Leu Thr Cys 315
Glu Cys Glu His Asn 320	Thr Thr Gly Pro Asp 325	Cys Gly Lys Cys Lys 330
Lys Asn Tyr Gln Gly 335	Arg Pro Trp Ser Pro 340	Gly Ser Tyr Leu Pro 345
Ile Pro Lys Gly Thr 350	Ala Asn Thr Cys Ile 355	Pro Ser Ile Ser Ser 360
Ile Gly Thr Asn Val 365	Cys Asp Asn Glu Leu 370	Leu His Cys Gln Asn 375
Gly Gly Thr Cys His 380	Asn Asn Val Arg Cys 385	Leu Cys Pro Ala Ala 390
Tyr Thr Gly Ile Leu 395	Cys Glu Lys Leu Arg 400	Cys Glu Glu Ala Gly 405

P2730P1sequencelisting.txt

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 425 430 435

Leu Val Phe

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 <212> DNA
 <213> Homo sapiens

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 ccgggacgagg tgtcctcatg acttctcttg tggaccatgt ccgtgatctt 150
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P2730P1sequencelisting.txt

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<211> 228

<212> PRT

<213> Homo sapiens

<400> 135

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Leu	Glu	Trp	Arg	Arg	Arg	Leu	Lys	Ser	Leu	Ala	Leu	Arg	Leu	Ala
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Gln	Tyr	Pro	Gly	Arg	Gly	Ser	Ala	Glu	Gly	Cys	Asp	Phe	Ser	Ile
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P2730P1sequencelisting.txt

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Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe Leu Glu Thr Leu
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Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys Ile Gly Leu
95 100 105
Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile Ile Gln
110 115 120
Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met Glu
125 130 135
Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro
140 145 150
Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met
155 160 165
Asn Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg
170 175 180
Met Glu Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn
185 190 195
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Gln Thr Ser

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<213> Homo sapiens

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<223> unknown base

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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<211> 489

<212> PRT

<213> Homo sapiens

<400> 138

Met	Glu	Ala	Pro	Asp	Tyr	Glu	Val	Leu	Ser	Val	Arg	Glu	Gln	Leu	1	5	10	15
Phe	His	Glu	Arg	Ile	Arg	Glu	Cys	Ile	Ile	Ser	Thr	Leu	Leu	Phe	20	25	30	
Ala	Thr	Leu	Tyr	Ile	Leu	Cys	His	Ile	Phe	Leu	Thr	Arg	Phe	Lys	35	40	45	
Lys	Pro	Ala	Glu	Phe	Thr	Thr	Val	Asp	Asp	Glu	Asp	Ala	Thr	Val	50	55	60	
Asn	Lys	Ile	Ala	Leu	Glu	Leu	Cys	Thr	Phe	Thr	Leu	Ala	Ile	Ala	65	70	75	
Leu	Gly	Ala	Val	Leu	Leu	Leu	Pro	Phe	Ser	Ile	Ile	Ser	Asn	Glu	80	85	90	
Val	Leu	Leu	Ser	Leu	Pro	Arg	Asn	Tyr	Tyr	Ile	Gln	Trp	Leu	Asn	95	100	105	
Gly	Ser	Leu	Ile	His	Gly	Leu	Trp	Asn	Leu	Val	Phe	Leu	Phe	Pro	110	115	120	
Asn	Leu	Ser	Leu	Ile	Phe	Leu	Met	Pro	Phe	Ala	Tyr	Phe	Phe	Thr	125	130	135	
Glu	Ser	Glu	Gly	Phe	Ala	Gly	Ser	Arg	Lys	Gly	Val	Leu	Gly	Arg	140	145	150	
Val	Tyr	Glu	Thr	Val	Val	Met	Leu	Met	Leu	Leu	Thr	Leu	Leu	Val	155	160	165	
Leu	Gly	Met	Val	Trp	Val	Ala	Ser	Ala	Ile	Val	Asp	Lys	Asn	Lys	170	175	180	
Ala	Asn	Arg	Glu	Ser	Leu	Tyr	Asp	Phe	Trp	Glu	Tyr	Tyr	Leu	Pro	185	190	195	
Tyr	Leu	Tyr	Ser	Cys	Ile	Ser	Phe	Leu	Gly	Val	Leu	Leu	Leu	Leu	200	205	210	

P2730P1sequencelisting.txt

Val	Cys	Thr	Pro	Leu	Gly	Leu	Ala	Arg	Met	Phe	Ser	Val	Thr	Gly
				215					220					225
Lys	Leu	Leu	Val	Lys	Pro	Arg	Leu	Leu	Glu	Asp	Leu	Glu	Glu	Gln
				230					235					240
Leu	Tyr	Cys	Ser	Ala	Phe	Glu	Glu	Ala	Ala	Leu	Thr	Arg	Arg	Ile
				245					250					255
Cys	Asn	Pro	Thr	Ser	Cys	Trp	Leu	Pro	Leu	Asp	Met	Glu	Leu	Leu
				260					265					270
His	Arg	Gln	Val	Leu	Ala	Leu	Gln	Thr	Gln	Arg	Val	Leu	Leu	Glu
				275					280					285
Lys	Arg	Arg	Lys	Ala	Ser	Ala	Trp	Gln	Arg	Asn	Leu	Gly	Tyr	Pro
				290					295					300
Leu	Ala	Met	Leu	Cys	Leu	Leu	Val	Leu	Thr	Gly	Leu	Ser	Val	Leu
				305					310					315
Ile	Val	Ala	Ile	His	Ile	Leu	Glu	Leu	Leu	Ile	Asp	Glu	Ala	Ala
				320					325					330
Met	Pro	Arg	Gly	Met	Gln	Gly	Thr	Ser	Leu	Gly	Gln	Val	Ser	Phe
				335					340					345
Ser	Lys	Leu	Gly	Ser	Phe	Gly	Ala	Val	Ile	Gln	Val	Val	Leu	Ile
				350					355					360
Phe	Tyr	Leu	Met	Val	Ser	Ser	Val	Val	Gly	Phe	Tyr	Ser	Ser	Pro
				365					370					375
Leu	Phe	Arg	Ser	Leu	Arg	Pro	Arg	Trp	His	Asp	Thr	Ala	Met	Thr
				380					385					390
Gln	Ile	Ile	Gly	Asn	Cys	Val	Cys	Leu	Leu	Val	Leu	Ser	Ser	Ala
				395					400					405
Leu	Pro	Val	Phe	Ser	Arg	Thr	Leu	Gly	Leu	Thr	Arg	Phe	Asp	Leu
				410					415					420
Leu	Gly	Asp	Phe	Gly	Arg	Phe	Asn	Trp	Leu	Gly	Asn	Phe	Tyr	Ile
				425					430					435
Val	Phe	Leu	Tyr	Asn	Ala	Ala	Phe	Ala	Gly	Leu	Thr	Thr	Leu	Cys
				440					445					450
Leu	Val	Lys	Thr	Phe	Thr	Ala	Ala	Val	Arg	Ala	Glu	Leu	Ile	Arg
				455					460					465
Ala	Phe	Gly	Leu	Asp	Arg	Leu	Pro	Leu	Pro	Val	Ser	Gly	Phe	Pro
				470					475					480
Gln	Ala	Ser	Arg	Lys	Thr	Gln	His	Gln						
				485										

<210> 139
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 53, 57
 <223> unknown base

<400> 139

P2730P1sequencelisting.txt

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 ggnttcntcc ccgctcgtcc tccccgggcc cagaggcacc tcggcttcag 100
 tcatgctgag cagagtatgg aagcacctga ctacgaagtg ctatccgtgc 150
 gagaacagct attccacgag aggatccgcg agtgtattat atcaacactt 200
 ctgtttgcaa cactgtacat cctctgccac atcttcctga cccgcttcaa 250
 gaagcctgct gagttcacca cagtggatga tgaagatgcc accg 294

<210> 140
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 197, 349
 <223> unknown base

<400> 140
 gaccgacctt aaagagtggg agcaaaggga ggacagagcc ttttaaaacg 50
 aggcggtggt gcctgccctt taagggcggg gcgtccggac gactgtatct 100
 gagccccaga ctgccccgag tttctgtcgc aggctgcgag gaaaggcccc 150
 taggctgggt ctggtgcttg gcggcggcgg cttcctcccc gttgtcntcc 200
 ccgggcccag aggcacctcg gcttcagtca tgctgagcag agtatggaag 250
 cacctgacta cgaagtgcta tccgtgcgag aacagctatt ccacgagagg 300
 atccgcgagt gtattatatc aacacttctg tttgcaacac tgtacatcnt 350
 ctgccacatc ttcctgacct gcttcaagaa gcctgctgag ttcaccacag 400
 tggatgatga agatgccacc gtcaacaaga ttgcgctcga gctgtgcacc 450
 tttaccctgg caattgccct ggggtgctgtc ctgctcctgc ctttctccat 500
 catcagcaat gaggtgctgc actccc 526

<210> 141
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 141
 gactgtatct gagccccaga ctgc 24

<210> 142
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 142
 tcagcaatga ggtgctgctc 20

<210> 143

P2730P1sequencelisting.txt

<211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 143
 tgaggaagat gagggacagg ttgg 24

<210> 144
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 144
 tatggaagca cctgactacg aagtgcctatc cgtgcgagaa cagctattcc 50

<210> 145
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 145
 gatgtgctcc ttggagctgg tgtgcagtgt cctgactgta agatcaagtc 50
 caaacctgtt ttggaattga ggaaacttct cttttgatct cagcccttgg 100
 tgggtccaggt cttcatgctg ctgtgggtga tattactggc cctggctcct 150
 gtcagtggac agtttgcaag gacacccagg cccattattt tcctccagcc 200
 tccatggacc acagtcttcc aaggagagag agtgaccctc acttgcaagg 250
 gatttcgctt ctactcacca cagaaaacaa aatggtacca tcggtacctt 300
 gggaaagaaa tactaagaga aaccccagac aatatacctg aggttcagga 350
 atctggagag tacagatgcc aggccagggg ctcccctctc agtagccctg 400
 tgcacttggg tttttcttca gagatgggat ttcctcatgc tgcccaggct 450
 aatgttgaac tcctgggctc aagtgatctg ctcacctagg cctctcaaag 500
 cgctgggatt acagcttcgc tgatcctgca agctccactt tctgtgtttg 550
 aaggagactc tgtggttctg aggtgccggg caaaggcggg agtaacactg 600
 aataatacta ttacaagaa tgataatgtc ctggcattcc ttaataaaag 650
 aactgacttc caaaaaaaaaa aaaaaaaaaa aaaaa 685

<210> 146
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 146
 Met Leu Leu Trp Val Ile Leu Leu Val Leu Ala Pro Val Ser Gly
 1 5 10 15
 Gln Phe Ala Arg Thr Pro Arg Pro Ile Ile Phe Leu Gln Pro Pro
 20 25 30
 Trp Thr Thr Val Phe Gln Gly Glu Arg Val Thr Leu Thr Cys Lys
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P2730P1sequencelisting.txt

	35		40		45
Gly Phe Arg Phe Tyr Ser Pro Gln Lys Thr Lys Trp Tyr His Arg	50		55		60
Tyr Leu Gly Lys Glu Ile Leu Arg Glu Thr Pro Asp Asn Ile Leu	65		70		75
Glu Val Gln Glu Ser Gly Glu Tyr Arg Cys Gln Ala Gln Gly Ser	80		85		90
Pro Leu Ser Ser Pro Val His Leu Asp Phe Ser Ser Glu Met Gly	95		100		105
Phe Pro His Ala Ala Gln Ala Asn Val Glu Leu Leu Gly Ser Ser	110		115		120
Asp Leu Leu Thr					

<210> 147
 <211> 1621
 <212> DNA
 <213> Homo sapiens

<400> 147
 cagaagaggg ggctagctag ctgtctctgc ggaccagggg gacccccgcg 50
 cccccccggt gtgaggcggc ctcacagggc cgggtgggct ggcgagccga 100
 cgcggcggcg gaggaggctg tgaggagtgt gtggaacagg acccgggaca 150
 gaggaaccat ggctccgcag aacctgagca ccttttgcct gttgctgcta 200
 tacctcatcg gggcgggtgat tgccggacga gatttctata agatcttggg 250
 ggtgcctcga agtgcctcta taaaggatat taaaaaggcc tataggaaac 300
 tagccctgca gtttcatccc gaccggaacc ctgatgatcc acaagcccag 350
 gagaaattcc aggatctggg tgctgcttat gaggttctgt cagatagtga 400
 gaaacggaaa cagtacgata cttatgggtga agaaggatta aaagatggtc 450
 atcagagctc ccatggagac attttttcac acttcttggg ggattttggt 500
 ttcattgtttg gaggaacccc tcgtcagcaa gacagaaata ttccaagagg 550
 aagtgatatt attgtagatc tagaagtcac tttggaagaa gtatatgcag 600
 gaaattttgt ggaagtagtt agaaacaaac ctgtggcaag gcaggctcct 650
 ggcaaacgga agtgcaattg tcggcaagag atgcggacca cccagctggg 700
 ccctgggctc ttccaaatga cccaggaggt ggtctgagac gaatgcccta 750
 atgtcaaact agtgaatgaa gaacgaacgc tggaagtaga aatagagcct 800
 ggggtgagag acggcatgga gtaccctttt attggagaag gtgagcctca 850
 cgtggatggg gagcctggag atttacggtt ccgaatcaaa gttgtcaagc 900
 acccaatatt tgaaaggaga ggagatgatt tgtacacaaa tgtgacaatc 950
 tcattagtgt agtcactggt tggctttgag atggatatta ctacttgga 1000
 tggtcacaag gtacatatat cccgggataa gatcaccagg ccaggagcga 1050

P2730P1sequencelisting.txt

agctatggaa gaaaggggaa gggctcccca accttgacaa caacaatatt 1100
aagggtcttt tgataatcac ttttgatgtg gattttccaa aagaacagtt 1150
aacagaggaa gcgagagaag gtatcaaaca gctactgaaa caagggtcag 1200
tgcagaaggt atacaatgga ctgcaaggat attgagagtg aataaaattg 1250
gactttgttt aaaataagtg aataagcgat atttattatc tgcaaggttt 1300
ttttgtgtgt gtttttgttt ttattttcaa tatgcaagtt aggcttaatt 1350
tttttatcta atgatcatca tgaaatgaat aagagggtt aagaatttgt 1400
ccatttgcatt tcggaaaaga atgaccagca aaagggtttac taatacctct 1450
ccctttgggg atttaatgtc tgggtgctgcc gcctgagttt caagaattaa 1500
agctgcaaga ggactccagg agcaaaagaa acacaatata gaggggttga 1550
gttgtagca atttcattca aaatgccaac tggagaagtc tgtttttaaa 1600
tacattttgt tgttattttt a 1621

<210> 148
<211> 358
<212> PRT
<213> Homo sapiens

<400> 148
Met Ala Pro Gln Asn Leu Ser Thr Phe Cys Leu Leu Leu Leu Tyr
1 5 10 15
Leu Ile Gly Ala Val Ile Ala Gly Arg Asp Phe Tyr Lys Ile Leu
20 25 30
Gly Val Pro Arg Ser Ala Ser Ile Lys Asp Ile Lys Lys Ala Tyr
35 40 45
Arg Lys Leu Ala Leu Gln Leu His Pro Asp Arg Asn Pro Asp Asp
50 55 60
Pro Gln Ala Gln Glu Lys Phe Gln Asp Leu Gly Ala Ala Tyr Glu
65 70 75
Val Leu Ser Asp Ser Glu Lys Arg Lys Gln Tyr Asp Thr Tyr Gly
80 85 90
Glu Glu Gly Leu Lys Asp Gly His Gln Ser Ser His Gly Asp Ile
95 100 105
Phe Ser His Phe Phe Gly Asp Phe Gly Phe Met Phe Gly Gly Thr
110 115 120
Pro Arg Gln Gln Asp Arg Asn Ile Pro Arg Gly Ser Asp Ile Ile
125 130 135
Val Asp Leu Glu Val Thr Leu Glu Glu Val Tyr Ala Gly Asn Phe
140 145 150
Val Glu Val Val Arg Asn Lys Pro Val Ala Arg Gln Ala Pro Gly
155 160 165
Lys Arg Lys Cys Asn Cys Arg Gln Glu Met Arg Thr Thr Gln Leu
170 175 180
Gly Pro Gly Arg Phe Gln Met Thr Gln Glu Val Val Cys Asp Glu
185 190 195

P2730P1sequencelisting.txt

Cys	Pro	Asn	Val	Lys	Leu	Val	Asn	Glu	Glu	Arg	Thr	Leu	Glu	Val
				200					205					210
Glu	Ile	Glu	Pro	Gly	Val	Arg	Asp	Gly	Met	Glu	Tyr	Pro	Phe	Ile
				215					220					225
Gly	Glu	Gly	Glu	Pro	His	Val	Asp	Gly	Glu	Pro	Gly	Asp	Leu	Arg
				230					235					240
Phe	Arg	Ile	Lys	Val	Val	Lys	His	Pro	Ile	Phe	Glu	Arg	Arg	Gly
				245					250					255
Asp	Asp	Leu	Tyr	Thr	Asn	Val	Thr	Ile	Ser	Leu	Val	Glu	Ser	Leu
				260					265					270
Val	Gly	Phe	Glu	Met	Asp	Ile	Thr	His	Leu	Asp	Gly	His	Lys	Val
				275					280					285
His	Ile	Ser	Arg	Asp	Lys	Ile	Thr	Arg	Pro	Gly	Ala	Lys	Leu	Trp
				290					295					300
Lys	Lys	Gly	Glu	Gly	Leu	Pro	Asn	Phe	Asp	Asn	Asn	Asn	Ile	Lys
				305					310					315
Gly	Ser	Leu	Ile	Ile	Thr	Phe	Asp	Val	Asp	Phe	Pro	Lys	Glu	Gln
				320					325					330
Leu	Thr	Glu	Glu	Ala	Arg	Glu	Gly	Ile	Lys	Gln	Leu	Leu	Lys	Gln
				335					340					345
Gly	Ser	Val	Gln	Lys	Val	Tyr	Asn	Gly	Leu	Gln	Gly	Tyr		
				350					355					

<210> 149

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 34, 52, 134, 142, 155, 158, 196, 217, 228, 272, 347, 410, 445, 482

<223> unknown base

<400> 149

tgggaccagg gaacccccggg ccccccggtg gagngcctaa caggccggtg 50
 gntgcgaccg aagcggcgagg cggaggaggt tttgaggatt tttggaacag 100
 gacccggaca gaggaaccat ggttccgcag aacntgagca cnttttgcct 150
 gttgntgnta tacttcatcg gggcggtgat tgccggacga gatttntata 200
 agattttggg gtgcctngaa gtgccttnta taaaggatat taaaaaggcc 250
 tataggaaac tagccctgca gntttatccc gaccggaacc ctgatgatcc 300
 acaagcccag gagaaattcc aggatttggg tgctgcttat gaggttntgt 350
 cagatagtga gaaacggaaa cagtacgata attatggtga agaaggatta 400
 aaagatggn atcagagctc ccatggagac attttttcac acttntttgg 450
 ggattttggt ttcattgttg gaggaacccc tngtcagcaa gacagaaata 500
 ttccaagag 509

P2730P1sequencelisting.txt

<210> 150
 <211> 1532
 <212> DNA
 <213> Homo sapiens

<400> 150
 ggcacgaggc ggcggggcag tcgcgggatg cgcccgggag ccacagcctg 50
 aggccctcag gtctctgcag gtgtcgtgga ggaacctagc acctgccatc 100
 ctcttcccca atttgccact tccagcagct ttagcccatg aggaggatgt 150
 gaccgggact gagtcaggag ccctctggaa gcatggagac tgtggtgatt 200
 gttgccatag gtgtgctggc caccatcttt ctggcttcgt ttgcagcctt 250
 ggtgctggtt tgcaggcagc gctactgccg gccgcgagac ctgctgcagc 300
 gctatgattc taagcccatt gtggacctca ttggtgccat ggagacccag 350
 tctgagccct ctgagttaga actggacgat gtcgttatca ccaaccccca 400
 cattgaggcc attctggaga atgaagactg gatcgaagat gcctcgggtc 450
 tcatgtccca ctgcattgcc atcttgaaga tttgtcacac tctgacagag 500
 aagcttggtt ccattgacaat gggctctggg gccaaagatga agacttcagc 550
 cagtgtcagc gacatcattg tgggtggccaa gcggatcagc cccagggtgg 600
 atgatgttgt gaagtcgatg taccctccgt tggaccccaa actcctggac 650
 gcacggacga ctgccctgct cctgtctgtc agtcacctgg tgctggtgac 700
 aaggaatgcc tgccatctga cgggaggcct ggactggatt gaccagtctc 750
 tgtcggctgc tgaggagcat ttggaagtcc ttcgagaagc agccctagct 800
 tctgagccag ataaaggcct cccaggccct gaaggcttcc tgcaggagca 850
 gtctgcaatt tagtgcttac aggccagcag ctagccatga aggccctgc 900
 cgccatccct ggatggctca gcttagcctt ctactttttc ctatagagtt 950
 agttgttttc cacggctgga gagttcagct gtgtgtgcat agtaaagcag 1000
 gagatccccg tcagtttatg cctcttttgc agttgcaaac tgtggctggt 1050
 gagtggcagt ctaatactac agttagggga gatgccattc actctctgca 1100
 agaggagtat tgaaaactgg tggactgtca gctttattta gtcacctag 1150
 tgttttcaag aaaattgagc caccgtctaa gaaatcaaga ggtttcacat 1200
 taaaattaga atttctggcc tctctcgatc ggtcagaatg tgtggcaatt 1250
 ctgatctgca ttttcagaag aggacaatca attgaaacta agtaggggtt 1300
 tcttcttttg gcaagacttg tactctctca cctggcctgt ttcatttatt 1350
 tgtattatct gcctgggtccc tgaggcgtct gggctctctc tctcccttgc 1400
 aggtttgggt ttgaagctga ggaactacaa agttgatgat ttctttttta 1450
 tctttatgcc tgcaatttta cctagctacc actaggtgga tagtaaattt 1500
 atacttatgt ttccctcaaa aaaaaaaaaa aa 1532

P2730P1sequencelisting.txt

<210> 151
 <211> 226
 <212> PRT
 <213> Homo sapiens

<400> 151
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 1 5 10 15
 Phe Leu Ala Ser Phe Ala Ala Leu Val Leu Val Cys Arg Gln Arg
 20 25 30
 Tyr Cys Arg Pro Arg Asp Leu Leu Gln Arg Tyr Asp Ser Lys Pro
 35 40 45
 Ile Val Asp Leu Ile Gly Ala Met Glu Thr Gln Ser Glu Pro Ser
 50 55 60
 Glu Leu Glu Leu Asp Asp Val Val Ile Thr Asn Pro His Ile Glu
 65 70 75
 Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp Ala Ser Gly Leu
 80 85 90
 Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His Thr Leu Thr
 95 100 105
 Glu Lys Leu Val Ala Met Thr Met Gly Ser Gly Ala Lys Met Lys
 110 115 120
 Thr Ser Ala Ser Val Ser Asp Ile Ile Val Val Ala Lys Arg Ile
 125 130 135
 Ser Pro Arg Val Asp Asp Val Val Lys Ser Met Tyr Pro Pro Leu
 140 145 150
 Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr Ala Leu Leu Leu Ser
 155 160 165
 Val Ser His Leu Val Leu Val Thr Arg Asn Ala Cys His Leu Thr
 170 175 180
 Gly Gly Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala Ala Glu Glu
 185 190 195
 His Leu Glu Val Leu Arg Glu Ala Ala Leu Ala Ser Glu Pro Asp
 200 205 210
 Lys Gly Leu Pro Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser Ala
 215 220 225
 Ile

<210> 152
 <211> 1027
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 1017, 1020
 <223> unknown base

<400> 152
 gcttcatttc tcccgactca gcttcccacc ctgggctttc cgaggtgctt 50
 tcgccgctgt cccaccact gcagccatga tctccttaac ggacacgcag 100
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P2730P1sequencelisting.txt

aaaattggaa tgggattaac aggatttggga gtgtttttcc tgttctttgg 150
 aatgattctc ttttttgaca aagcactact ggctattgga aatgttttat 200
 ttgtagccgg cttggctttt gtaattgggt tagaaagaac attcagattc 250
 ttcttccaaa aacataaaat gaaagctaca ggtttttttc tgggtggtgt 300
 atttgtagtc cttattgggt ggcctttgat aggcattgat ttcgaaattt 350
 atggattttt tctcttggtc aggggcttct ttcctgtcgt tgttggtttt 400
 attagaagag tgccagtcct tggatccctc ctaaatttac ctggaattag 450
 atcatttgta gataaagttg gagaaagcaa caatatggta taacaacaag 500
 tgaatttgaa gactcattta aaatattgtg ttatttataa agtcatttga 550
 agaattattca gcacaaaatt aaattacatg aaatagcttg taatgttctt 600
 tacaggagtt taaaacgtat agcctacaaa gtaccagcag caaattagca 650
 aagaagcagt gaaaacaggc ttctactcaa gtgaactaag aagaagtcag 700
 caagcaaact gagagaggtg aaatccatgt taatgatgct taagaaactc 750
 ttgaaggcta tttgtgttgt ttttccacaa tgtgcgaaac tcagccatcc 800
 ttagagaact gtggtgcctg tttcttttct tttattttg aaggctcagg 850
 agcatccata ggcatttgct ttttagaagt gtccactgca atggcaaaaa 900
 tatttccagt tgcactgtat ctctggaagt gatgcatgaa ttcgattgga 950
 ttgtgtcatt ttaaagtatt aaaaccaagg aaacccaat tttgatgtat 1000
 ggattacttt tttttgngcn cagggcc 1027

<210> 153
 <211> 138
 <212> PRT
 <213> Homo sapiens

<220>
 <221> N-myristoylation Sites
 <222> 11-16, 51-56 and 116-121
 <223> N-myristoylation Sites.

<220>
 <221> Transmembrane domains
 <222> 12-30, 33-52, 69-89 and 93-109
 <223> Transmembrane domains

<220>
 <221> Aminoacyl-transfer RNA Synthetases.
 <222> 49-59
 <223> Aminoacyl-transfer RNA synthetases class-II protein.

<400> 153
 Met Ile Ser Leu Thr Asp Thr Gln Lys Ile Gly Met Gly Leu Thr
 1 5 10 15
 Gly Phe Gly Val Phe Phe Leu Phe Phe Gly Met Ile Leu Phe Phe
 20 25 30
 Asp Lys Ala Leu Leu Ala Ile Gly Asn Val Leu Phe Val Ala Gly
 35 40 45

P2730P1sequencelisting.txt

Leu Ala Phe Val Ile Gly Leu Glu Arg Thr Phe Arg Phe Phe Phe
50 55 60
Gln Lys His Lys Met Lys Ala Thr Gly Phe Phe Leu Gly Gly Val
65 70 75
Phe Val Val Leu Ile Gly Trp Pro Leu Ile Gly Met Ile Phe Glu
80 85 90
Ile Tyr Gly Phe Phe Leu Leu Phe Arg Gly Phe Phe Pro Val Val
95 100 105
Val Gly Phe Ile Arg Arg Val Pro Val Leu Gly Ser Leu Leu Asn
110 115 120
Leu Pro Gly Ile Arg Ser Phe Val Asp Lys Val Gly Glu Ser Asn
125 130 135
Asn Met Val

<210> 154
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 66
<223> unknown base

<400> 154
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<213> Homo sapiens

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aagagcgtcc acgcatcatg gacctgcgg gactgctgaa gtctcagttc 200
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P2730P1sequencelisting.txt

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taaagtgtt ttctgggtca aaaaaaaaaa a 1781

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<211> 378

<212> PRT

<213> Homo sapiens

<400> 156

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P2730P1sequencelisting.txt

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Ile Gln Leu Phe	Thr Leu Leu Leu Trp	Pro Ile Asn Lys Gln	Leu
	35	40	45
Phe Arg Lys Ile	Asn Cys Arg Leu Ser	Tyr Cys Ile Ser Ser	Gln
	50	55	60
Leu Val Met Leu	Leu Glu Trp Trp Ser	Gly Thr Glu Cys Thr	Ile
	65	70	75
Phe Thr Asp Pro	Arg Ala Tyr Leu Lys	Tyr Gly Lys Glu Asn	Ala
	80	85	90
Ile Val Val Leu	Asn His Lys Phe Glu	Ile Asp Phe Leu Cys	Gly
	95	100	105
Trp Ser Leu Ser	Glu Arg Phe Gly Leu	Leu Gly Gly Ser Lys	Val
	110	115	120
Leu Ala Lys Lys	Glu Leu Ala Tyr Val	Pro Ile Ile Gly Trp	Met
	125	130	135
Trp Tyr Phe Thr	Glu Met Val Phe Cys	Ser Arg Lys Trp Glu	Gln
	140	145	150
Asp Arg Lys Thr	Val Ala Thr Ser Leu	Gln His Leu Arg Asp	Tyr
	155	160	165
Pro Glu Lys Tyr	Phe Phe Leu Ile His	Cys Glu Gly Thr Arg	Phe
	170	175	180
Thr Glu Lys Lys	His Glu Ile Ser Met	Gln Val Ala Arg Ala	Lys
	185	190	195
Gly Leu Pro Arg	Leu Lys His His Leu	Leu Pro Arg Thr Lys	Gly
	200	205	210
Phe Ala Ile Thr	Val Arg Ser Leu Arg	Asn Val Val Ser Ala	Val
	215	220	225
Tyr Asp Cys Thr	Leu Asn Phe Arg Asn	Asn Glu Asn Pro Thr	Leu
	230	235	240
Leu Gly Val Leu	Asn Gly Lys Lys Tyr	His Ala Asp Leu Tyr	Val
	245	250	255
Arg Arg Ile Pro	Leu Glu Asp Ile Pro	Glu Asp Asp Asp Glu	Cys
	260	265	270
Ser Ala Trp Leu	His Lys Leu Tyr Gln	Glu Lys Asp Ala Phe	Gln
	275	280	285
Glu Glu Tyr Tyr	Arg Thr Gly Thr Phe	Pro Glu Thr Pro Met	Val
	290	295	300
Pro Pro Arg Arg	Pro Trp Thr Leu Val	Asn Trp Leu Phe Trp	Ala
	305	310	315
Ser Leu Val Leu	Tyr Pro Phe Phe Gln	Phe Leu Val Ser Met	Ile
	320	325	330
Arg Ser Gly Ser	Ser Leu Thr Leu Ala	Ser Phe Ile Leu Val	Phe
	335	340	345

Phe Val Ala Ser Val Gly Val Arg Trp Met Ile Gly Val Thr Glu
 350 355 360

Ile Asp Lys Gly Ser Ala Tyr Gly Asn Ser Asp Ser Lys Gln Lys
 365 370 375

Leu Asn Asp

<210> 157

<211> 1849

<212> DNA

<213> Homo sapiens

<400> 157

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 acggaagggt ttcttcttgg ggaagtaaaa ggtgaagcca agaacagcat 150
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 cacactgaca ttcctgaagc tagtccagct agtacaccac aaatcattaa 1050
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P2730P1sequencelisting.txt

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 ttcttttagaa ttggaaaagt gagaccaggc acagtggctc acacctgtaa 1550
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<210> 158

<211> 409

<212> PRT

<213> Homo sapiens

<400> 158

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				20					25					30
Gly	Phe	Leu	Leu	Gly	Glu	Val	Lys	Gly	Glu	Ala	Lys	Asn	Ser	Ile
				35					40					45
Thr	Asp	Ser	Gln	Met	Asp	Asp	Val	Glu	Val	Val	Tyr	Thr	Ile	Asp
				50					55					60
Ile	Gln	Lys	Tyr	Ile	Pro	Cys	Tyr	Gln	Leu	Phe	Ser	Phe	Tyr	Asn
				65					70					75
Ser	Ser	Gly	Glu	Val	Asn	Glu	Gln	Ala	Leu	Lys	Lys	Ile	Leu	Ser
				80					85					90
Asn	Val	Lys	Lys	Asn	Val	Val	Gly	Trp	Tyr	Lys	Phe	Arg	Arg	His
				95					100					105
Ser	Asp	Gln	Ile	Met	Thr	Phe	Arg	Glu	Arg	Leu	Leu	His	Lys	Asn
				110					115					120
Leu	Gln	Glu	His	Phe	Ser	Asn	Gln	Asp	Leu	Val	Phe	Leu	Leu	Leu
				125					130					135
Thr	Pro	Ser	Ile	Ile	Thr	Glu	Ser	Cys	Ser	Thr	His	Arg	Leu	Glu
				140					145					150
His	Ser	Leu	Tyr	Lys	Pro	Gln	Lys	Gly	Leu	Phe	His	Arg	Val	Pro
				155					160					165
Leu	Val	Val	Ala	Asn	Leu	Gly	Met	Ser	Glu	Gln	Leu	Gly	Tyr	Lys
				170					175					180
Thr	Val	Ser	Gly	Ser	Cys	Met	Ser	Thr	Gly	Phe	Ser	Arg	Ala	Val
				185					190					195
Gln	Thr	His	Ser	Ser	Lys	Phe	Phe	Glu	Glu	Asp	Gly	Ser	Leu	Lys
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P2730P1sequencelisting.txt

Glu	Val	His	Lys	Ile	Asn	Glu	Met	Tyr	Ala	Ser	Leu	Gln	Glu	Glu	215	220	225
Leu	Lys	Ser	Ile	Cys	Lys	Lys	Val	Glu	Asp	Ser	Glu	Gln	Ala	Val	230	235	240
Asp	Lys	Leu	Val	Lys	Asp	Val	Asn	Arg	Leu	Lys	Arg	Glu	Ile	Glu	245	250	255
Lys	Arg	Arg	Gly	Ala	Gln	Ile	Gln	Ala	Ala	Arg	Glu	Lys	Asn	Ile	260	265	270
Gln	Lys	Asp	Pro	Gln	Glu	Asn	Ile	Phe	Leu	Cys	Gln	Ala	Leu	Arg	275	280	285
Thr	Phe	Phe	Pro	Asn	Ser	Glu	Phe	Leu	His	Ser	Cys	Val	Met	Ser	290	295	300
Leu	Lys	Asn	Arg	His	Val	Ser	Lys	Ser	Ser	Cys	Asn	Tyr	Asn	His	305	310	315
His	Leu	Asp	Val	Val	Asp	Asn	Leu	Thr	Leu	Met	Val	Glu	His	Thr	320	325	330
Asp	Ile	Pro	Glu	Ala	Ser	Pro	Ala	Ser	Thr	Pro	Gln	Ile	Ile	Lys	335	340	345
His	Lys	Ala	Leu	Asp	Leu	Asp	Asp	Arg	Trp	Gln	Phe	Lys	Arg	Ser	350	355	360
Arg	Leu	Leu	Asp	Thr	Gln	Asp	Lys	Arg	Ser	Lys	Ala	Asn	Thr	Gly	365	370	375
Ser	Ser	Asn	Gln	Asp	Lys	Ala	Ser	Lys	Met	Ser	Ser	Pro	Glu	Thr	380	385	390
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 <211> 2651
 <212> DNA
 <213> Homo sapiens

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 c 2651

<210> 160
 <211> 556
 <212> PRT
 <213> Homo sapiens

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 Ser Glu Val Arg Arg Leu Tyr Val Ser Lys Gly Phe Asn Lys Asn
 35 40 45
 Asp Ala Pro Leu His Glu Ile Asn Gly Asp His Leu Lys Ile Cys
 50 55 60
 Pro Gln Gly Ser Thr Cys Cys Ser Gln Glu Met Glu Glu Lys Tyr
 65 70 75
 Ser Leu Gln Ser Lys Asp Asp Phe Lys Ser Val Val Ser Glu Gln
 80 85 90
 Cys Asn His Leu Gln Ala Val Phe Ala Ser Arg Tyr Lys Lys Phe
 95 100 105
 Asp Glu Phe Phe Lys Glu Leu Leu Glu Asn Ala Glu Lys Ser Leu
 110 115 120
 Asn Asp Met Phe Val Lys Thr Tyr Gly His Leu Tyr Met Gln Asn
 125 130 135
 Ser Glu Leu Phe Lys Asp Leu Phe Val Glu Leu Lys Arg Tyr Tyr
 140 145 150
 Val Val Gly Asn Val Asn Leu Glu Glu Met Leu Asn Asp Phe Trp
 155 160 165
 Ala Arg Leu Leu Glu Arg Met Phe Arg Leu Val Asn Ser Gln Tyr
 170 175 180
 His Phe Thr Asp Glu Tyr Leu Glu Cys Val Ser Lys Tyr Thr Glu
 185 190 195
 Gln Leu Lys Pro Phe Gly Asp Val Pro Arg Lys Leu Lys Leu Gln
 200 205 210

P2730P1sequencelisting.txt

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Ala Val Ala Gly	Asp 230	Val Val Ser Lys	Val 235	Ser Val Val Asn	Pro 240
Thr Ala Gln Cys	Thr 245	His Ala Leu Leu	Lys 250	Met Ile Tyr Cys	Ser 255
His Cys Arg Gly	Leu 260	Val Thr Val Lys	Pro 265	Cys Tyr Asn Tyr	Cys 270
Ser Asn Ile Met	Arg 275	Gly Cys Leu Ala	Asn 280	Gln Gly Asp Leu	Asp 285
Phe Glu Trp Asn	Asn 290	Phe Ile Asp Ala	Met 295	Leu Met Val Ala	Glu 300
Arg Leu Glu Gly	Pro 305	Phe Asn Ile Glu	Ser 310	Val Met Asp Pro	Ile 315
Asp Val Lys Ile	Ser 320	Asp Ala Ile Met	Asn 325	Met Gln Asp Asn	Ser 330
Val Gln Val Ser	Gln 335	Lys Val Phe Gln	Gly 340	Cys Gly Pro Pro	Lys 345
Pro Leu Pro Ala	Gly 350	Arg Ile Ser Arg	Ser 355	Ile Ser Glu Ser	Ala 360
Phe Ser Ala Arg	Phe 365	Arg Pro His His	Pro 370	Glu Glu Arg Pro	Thr 375
Thr Ala Ala Gly	Thr 380	Ser Leu Asp Arg	Leu 385	Val Thr Asp Val	Lys 390
Glu Lys Leu Lys	Gln 395	Ala Lys Lys Phe	Trp 400	Ser Ser Leu Pro	Ser 405
Asn Val Cys Asn	Asp 410	Glu Arg Met Ala	Ala 415	Gly Asn Gly Asn	Glu 420
Asp Asp Cys Trp	Asn 425	Gly Lys Gly Lys	Ser 430	Arg Tyr Leu Phe	Ala 435
Val Thr Gly Asn	Gly 440	Leu Ala Asn Gln	Gly 445	Asn Asn Pro Glu	Val 450
Gln Val Asp Thr	Ser 455	Lys Pro Asp Ile	Leu 460	Ile Leu Arg Gln	Ile 465
Met Ala Leu Arg	Val 470	Met Thr Ser Lys	Met 475	Lys Asn Ala Tyr	Asn 480
Gly Asn Asp Val	Asp 485	Phe Phe Asp Ile	Ser 490	Asp Glu Ser Ser	Gly 495
Glu Gly Ser Gly	Ser 500	Gly Cys Glu Tyr	Gln 505	Gln Cys Pro Ser	Glu 510
Phe Asp Tyr Asn	Ala 515	Thr Asp His Ala	Gly 520	Lys Ser Ala Asn	Glu 525
Lys Ala Asp Ser	Ala 530	Gly Val Arg Pro	Gly 535	Ala Gln Ala Tyr	Leu 540
Leu Thr Val Phe	Cys Ile Leu Phe	Leu Val Met Gln	Arg Glu Trp		

Arg

<210> 161
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 161
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<210> 162
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 162
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<210> 163
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

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<210> 164
<211> 870
<212> DNA
<213> Homo sapiens

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P2730P1sequencelisting.txt

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 tcaaaaaaaaa aaaaaaaaaa 870

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 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 165
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 20 25 30
 Gly His Arg Asp Arg Gly Gln Ala Ser Arg Arg Trp Leu Gln Glu
 35 40 45
 Gly Gly Gln Glu Cys Glu Cys Lys Asp Trp Phe Leu Arg Ala Pro
 50 55 60
 Arg Arg Lys Phe Met Thr Val Ser Gly Leu Pro Lys Lys Gln Cys
 65 70 75
 Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys Thr Arg His Gln
 80 85 90
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 <213> Homo sapiens

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 ccagacgact cgggcaaaga cccaaagcca gacttcccca aattcctaag 150
 cctcctgggc acagagatca ttgagaatgc agtcgagttc atcctccgct 200
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P2730P1sequencelisting.txt

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<210> 167

<211> 87

<212> PRT

<213> Homo sapiens

<400> 167

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Val Leu Phe Leu Thr Cys Tyr Ala Asp Asp Lys Pro Asp Lys Pro
20 25 30

Asp Asp Lys Pro Asp Asp Ser Gly Lys Asp Pro Lys Pro Asp Phe
35 40 45

Pro Lys Phe Leu Ser Leu Leu Gly Thr Glu Ile Ile Glu Asn Ala
50 55 60

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Glu Phe Asp Asp Asn Glu Gly Lys His Ser Ser Lys
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<211> 1371

<212> DNA

<213> Homo sapiens

<400> 168

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gcagctgctg gtgctgcttc ttaccctgcc cctgcacctc atggctctgc 150

tgggctgctg gcagccccctg tgcaaaagct acttccccta cctgatggcc 200

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tggagctggg ctgcggaacc ggagccaact ttcagttcta cccaccgggc 350

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P2730P1sequencelisting.txt

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gacagtgaaa aagctctact tctacgctga cccagggagg aaacactagg 1050
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<210> 169

<211> 277

<212> PRT

<213> Homo sapiens

<400> 169

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Leu	Cys	Lys	Ser	Tyr	Phe	Pro	Tyr	Leu	Met	Ala	Val	Leu	Thr	Pro	35	40	45	
Lys	Ser	Asn	Arg	Lys	Met	Glu	Ser	Lys	Lys	Arg	Glu	Leu	Phe	Ser	50	55	60	
Gln	Ile	Lys	Gly	Leu	Thr	Gly	Ala	Ser	Gly	Lys	Val	Ala	Leu	Leu	65	70	75	
Glu	Leu	Gly	Cys	Gly	Thr	Gly	Ala	Asn	Phe	Gln	Phe	Tyr	Pro	Pro	80	85	90	
Gly	Cys	Arg	Val	Thr	Cys	Leu	Asp	Pro	Asn	Pro	His	Phe	Glu	Lys	95	100	105	
Phe	Leu	Thr	Lys	Ser	Met	Ala	Glu	Asn	Arg	His	Leu	Gln	Tyr	Glu	110	115	120	
Arg	Phe	Val	Val	Ala	Pro	Gly	Glu	Asp	Met	Arg	Gln	Leu	Ala	Asp	125	130	135	
Gly	Ser	Met	Asp	Val	Val	Val	Cys	Thr	Leu	Val	Leu	Cys	Ser	Val	140	145	150	
Gln	Ser	Pro	Arg	Lys	Val	Leu	Gln	Glu	Val	Arg	Arg	Val	Leu	Arg	155	160	165	
Pro	Gly	Gly	Val	Leu	Phe	Phe	Trp	Glu	His	Val	Ala	Glu	Pro	Tyr	170	175	180	
Gly	Ser	Trp	Ala	Phe	Met	Trp	Gln	Gln	Val	Phe	Glu	Pro	Thr	Trp	185	190	195	
Lys	His	Ile	Gly	Asp	Gly	Cys	Cys	Leu	Thr	Arg	Glu	Thr	Trp	Lys				

P2730P1sequencelisting.txt

200		205	210
Asp Leu Glu Asn	Ala Gln Phe Ser Glu Ile Gln Met Glu Arg Gln		
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Pro Pro Pro Leu	Lys Trp Leu Pro Val Gly Pro His Ile Met Gly		
230	235	240	
Lys Ala Val Lys	Gln Ser Phe Pro Ser Ser Lys Ala Leu Ile Cys		
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Ser Phe Pro Ser	Leu Gln Leu Glu Gln Ala Thr His Gln Pro Ile		
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<210> 170
 <211> 1621
 <212> DNA
 <213> Homo sapiens

<400> 170
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 agatgtcatt ccgtaaagta aacatcatca tcttggtcct ggctgttgct 200
 ctcttcttac tggttttgca ccataacttc ctgagcttga gcagtttggt 250
 aaggaatgag gttacagatt caggaattgt agggcctcaa cctatagact 300
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 tataaacagc attcagcaca aactcgcct caatgtgatt ttctacattg 450
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 tcacctcagt ttgtaaaggc tgccaagtta ctccattgga atggacattt 1150

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atgacaaact gccctgtctg gcagtcagct tcccagacag actatagact 1450
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aatgactgga aagaagaact gatatggcta gttcagctag ctggtacaga 1550
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<211> 371

<212> PRT

<213> Homo sapiens

<400> 171

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Ser	Leu	Leu	Arg	Asn	Glu	Val	Thr	Asp	Ser	Gly	Ile	Val	Gly	Pro	35	40	45	
Gln	Pro	Ile	Asp	Phe	Val	Pro	Asn	Ala	Leu	Arg	His	Ala	Val	Asp	50	55	60	
Gly	Arg	Gln	Glu	Glu	Ile	Pro	Val	Val	Ile	Ala	Ala	Ser	Glu	Asp	65	70	75	
Arg	Leu	Gly	Gly	Ala	Ile	Ala	Ala	Ile	Asn	Ser	Ile	Gln	His	Asn	80	85	90	
Thr	Arg	Ser	Asn	Val	Ile	Phe	Tyr	Ile	Val	Thr	Leu	Asn	Asn	Thr	95	100	105	
Ala	Asp	His	Leu	Arg	Ser	Trp	Leu	Asn	Ser	Asp	Ser	Leu	Lys	Ser	110	115	120	
Ile	Arg	Tyr	Lys	Ile	Val	Asn	Phe	Asp	Pro	Lys	Leu	Leu	Glu	Gly	125	130	135	
Lys	Val	Lys	Glu	Asp	Pro	Asp	Gln	Gly	Glu	Ser	Met	Lys	Pro	Leu	140	145	150	
Thr	Phe	Ala	Arg	Phe	Tyr	Leu	Pro	Ile	Leu	Val	Pro	Ser	Ala	Lys	155	160	165	
Lys	Ala	Ile	Tyr	Met	Asp	Asp	Asp	Val	Ile	Val	Gln	Gly	Asp	Ile	170	175	180	
Leu	Ala	Leu	Tyr	Asn	Thr	Ala	Leu	Lys	Pro	Gly	His	Ala	Ala	Ala	185	190	195	
Phe	Ser	Glu	Asp	Cys	Asp	Ser	Ala	Ser	Thr	Lys	Val	Val	Ile	Arg	200	205	210	

P2730P1sequencelisting.txt

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Lys	Glu	Arg	Ile	Arg	Lys	Leu	Ser	Met	Lys	Ala	Ser	Thr	Cys	Ser
				230					235					240
Phe	Asn	Pro	Gly	Val	Phe	Val	Ala	Asn	Leu	Thr	Glu	Trp	Lys	Arg
				245					250					255
Gln	Asn	Ile	Thr	Asn	Gln	Leu	Glu	Lys	Trp	Met	Lys	Leu	Asn	Val
				260					265					270
Glu	Glu	Gly	Leu	Tyr	Ser	Arg	Thr	Leu	Ala	Gly	Ser	Ile	Thr	Thr
				275					280					285
Pro	Pro	Leu	Leu	Ile	Val	Phe	Tyr	Gln	Gln	His	Ser	Thr	Ile	Asp
				290					295					300
Pro	Met	Trp	Asn	Val	Arg	His	Leu	Gly	Ser	Ser	Ala	Gly	Lys	Arg
				305					310					315
Tyr	Ser	Pro	Gln	Phe	Val	Lys	Ala	Ala	Lys	Leu	Leu	His	Trp	Asn
				320					325					330
Gly	His	Leu	Lys	Pro	Trp	Gly	Arg	Thr	Ala	Ser	Tyr	Thr	Asp	Val
				335					340					345
Trp	Glu	Lys	Trp	Tyr	Ile	Pro	Asp	Pro	Thr	Gly	Lys	Phe	Asn	Leu
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> unknown base

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 gcattcagca caacactcgn tccaatgtga ttttctacat tgttactctc 250
 aacaatacag cagacatnt ccggtcctgg ntcaacagtg attccctgaa 300
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<210> 173
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 cccctcccct ggtcctccca gtgtttgctg gataataaat ggaactatgg 800
 ctctaaaaaa aaaaaaaaaa aaa 823

<210> 175
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 175
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35 PZ7501 sequence listing.txt 45

Pro Glu Gly Pro Trp Pro Ser Leu Glu Pro Arg Thr
80 85

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<211> 1660
<212> DNA
<213> Homo sapiens
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tcactgtttt	tggaggactc	atggctttta	actacaatcg	ggcattccag	1250
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 ggaaaacatt tccttctaag agccatttac agaatagaag atgagaccac 1600
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<210> 177

<211> 445

<212> PRT

<213> Homo sapiens

<400> 177

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Ala	Leu	Ser	Leu	Ala	Met	Met	Phe	Thr	Phe	Arg	Phe	Ile	Thr	Thr	20	25	30	
Leu	Leu	Val	His	Ile	Phe	Ile	Ser	Leu	Val	Ile	Leu	Gly	Leu	Leu	35	40	45	
Phe	Val	Cys	Gly	Val	Leu	Trp	Trp	Leu	Tyr	Tyr	Asp	Tyr	Thr	Asn	50	55	60	
Asp	Leu	Ser	Ile	Glu	Leu	Asp	Thr	Glu	Arg	Glu	Asn	Met	Lys	Cys	65	70	75	
Val	Leu	Gly	Phe	Ala	Ile	Val	Ser	Thr	Gly	Ile	Thr	Ala	Val	Leu	80	85	90	
Leu	Val	Leu	Ile	Phe	Val	Leu	Arg	Lys	Arg	Ile	Lys	Leu	Thr	Val	95	100	105	
Glu	Leu	Phe	Gln	Ile	Thr	Asn	Lys	Ala	Ile	Ser	Ser	Ala	Pro	Phe	110	115	120	
Leu	Leu	Phe	Gln	Pro	Leu	Trp	Thr	Phe	Ala	Ile	Leu	Ile	Phe	Phe	125	130	135	
Trp	Val	Leu	Trp	Val	Ala	Val	Leu	Leu	Ser	Leu	Gly	Thr	Ala	Gly	140	145	150	
Ala	Ala	Gln	Val	Met	Glu	Gly	Gly	Gln	Val	Glu	Tyr	Lys	Pro	Leu	155	160	165	
Ser	Gly	Ile	Arg	Tyr	Met	Trp	Ser	Tyr	His	Leu	Ile	Gly	Leu	Ile	170	175	180	
Trp	Thr	Ser	Glu	Phe	Ile	Leu	Ala	Cys	Gln	Gln	Met	Thr	Ile	Ala	185	190	195	
Gly	Ala	Val	Val	Thr	Cys	Tyr	Phe	Asn	Arg	Ser	Lys	Asn	Asp	Pro	200	205	210	
Pro	Asp	His	Pro	Ile	Leu	Ser	Ser	Leu	Ser	Ile	Leu	Phe	Phe	Tyr	215	220	225	

P2730P1sequencelisting.txt

His	Gln	Gly	Thr	Val	Val	Lys	Gly	Ser	Phe	Leu	Ile	Ser	Val	Val
				230					235					240
Arg	Ile	Pro	Arg	Ile	Ile	Val	Met	Tyr	Met	Gln	Asn	Ala	Leu	Lys
				245					250					255
Glu	Gln	Gln	His	Gly	Ala	Leu	Ser	Arg	Tyr	Leu	Phe	Arg	Cys	Cys
				260					265					270
Tyr	Cys	Cys	Phe	Trp	Cys	Leu	Asp	Lys	Tyr	Leu	Leu	His	Leu	Asn
				275					280					285
Gln	Asn	Ala	Tyr	Thr	Thr	Thr	Ala	Ile	Asn	Gly	Thr	Asp	Phe	Cys
				290					295					300
Thr	Ser	Ala	Lys	Asp	Ala	Phe	Lys	Ile	Leu	Ser	Lys	Asn	Ser	Ser
				305					310					315
His	Phe	Thr	Ser	Ile	Asn	Cys	Phe	Gly	Asp	Phe	Ile	Ile	Phe	Leu
				320					325					330
Gly	Lys	Val	Leu	Val	Val	Cys	Phe	Thr	Val	Phe	Gly	Gly	Leu	Met
				335					340					345
Ala	Phe	Asn	Tyr	Asn	Arg	Ala	Phe	Gln	Val	Trp	Ala	Val	Pro	Leu
				350					355					360
Leu	Leu	Val	Ala	Phe	Phe	Ala	Tyr	Leu	Val	Ala	His	Ser	Phe	Leu
				365					370					375
Ser	Val	Phe	Glu	Thr	Val	Leu	Asp	Ala	Leu	Phe	Leu	Cys	Phe	Ala
				380					385					390
Val	Asp	Leu	Glu	Thr	Asn	Asp	Gly	Ser	Ser	Glu	Lys	Pro	Tyr	Phe
				395					400					405
Met	Asp	Gln	Glu	Phe	Leu	Ser	Phe	Val	Lys	Arg	Ser	Asn	Lys	Leu
				410					415					420
Asn	Asn	Ala	Arg	Ala	Gln	Gln	Asp	Lys	His	Ser	Leu	Arg	Asn	Glu
				425					430					435
Glu	Gly	Thr	Glu	Leu	Gln	Ala	Ile	Val	Arg					
				440					445					

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 <211> 2773
 <212> DNA
 <213> Homo sapiens

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 aagggaataa gaataattcat tctgtgtggt gaaaattttt tgaaaaaaa 150
 attgccttct tcaaacaagg gtgtcattct gatatttatg aggactgttg 200
 ttctcactat gaaggcatct gttattgaaa tggtccttgt tttgctggtg 250
 actggagtac attcaaaca aaaaacggca aagaagatta aaaggcccaa 300
 gttcactgtg cctcagatca actgcgatgt caaagccgga aagatcatcg 350
 atcctgagtt cattgtgaaa tgtccagcag gatgccaaga ccccaaatac 400
 catgtttatg gcaactgacgt gtatgcatcc tactccagtg tgtgtggcgc 450

P2730P1sequencelisting.txt

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 caatcgttat ccctaccacg atggagagaa tcctttatcg tcttagaaag 600
 taaacccaaa aaggggtgtaa cctacccatc agctcttaca tactcatcat 650
 cgaaaagtcc agctgcccac gcaggtgaga ccacaaaagc ctatcagagg 700
 ccacctattc cagggacaac tgcacagccg gtcactctga tgcagcttct 750
 ggctgtcact gtagctgtgg ccacccccac caccttgcca aggccatccc 800
 cttctgctgc ttctaccacc agcatcccca gaccacaatc agtgggccac 850
 aggagccagg agatggatct ctgggccact gccacctaca caagcagcca 900
 aaacaggccc agagctgatc caggtatcca aaggcaagat ctttcaggag 950
 ctgccttcca gaaacctggt ggagcggatg tcagcctggg acttggtcca 1000
 aaagaagaat tgagcacaca gtctttggag ccagtatccc tgggagatcc 1050
 aaactgcaaa attgacttgt cgtttttaat tgatgggagc accagcattg 1100
 gcaaacggcg attccgaatc cagaagcagc tcctggctga tgttgcccaa 1150
 gctcttgaca ttggccctgc cgggccactg atgggtgttg tccagtatgg 1200
 agacaaccct gctactcact ttaacctcaa gacacacacg aattctcgag 1250
 atctgaagac agccatagag aaaattactc agagaggagg actttctaata 1300
 gtaggtcggg ccatctcctt tgtgaccaag aacttctttt ccaaagccaa 1350
 tggaaacaga agcggggctc ccaatgtggt ggtggtgatg gtggatggct 1400
 ggcccacgga caaagtggag gaggcttcaa gacttgcgag agagtcagga 1450
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 cattgccact caccgcgcca gagaccactc cttctttgtg gacgagtttg 2150

P2730P1sequencelisting.txt

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 gtgctgcttt actaactgac gtgttggacc accccaccgc ttaatggggc 2300
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<211> 678

<212> PRT

<213> Homo sapiens

<400> 179

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			20						25					30
Ala	Lys	Lys	Ile	Lys	Arg	Pro	Lys	Phe	Thr	Val	Pro	Gln	Ile	Asn
			35						40					45
Cys	Asp	Val	Lys	Ala	Gly	Lys	Ile	Ile	Asp	Pro	Glu	Phe	Ile	Val
			50						55					60
Lys	Cys	Pro	Ala	Gly	Cys	Gln	Asp	Pro	Lys	Tyr	His	Val	Tyr	Gly
			65						70					75
Thr	Asp	Val	Tyr	Ala	Ser	Tyr	Ser	Ser	Val	Cys	Gly	Ala	Ala	Val
			80						85					90
His	Ser	Gly	Val	Leu	Asp	Asn	Ser	Gly	Gly	Lys	Ile	Leu	Val	Arg
			95						100					105
Lys	Val	Ala	Gly	Gln	Ser	Gly	Tyr	Lys	Gly	Ser	Tyr	Ser	Asn	Gly
			110						115					120
Val	Gln	Ser	Leu	Ser	Leu	Pro	Arg	Trp	Arg	Glu	Ser	Phe	Ile	Val
			125						130					135
Leu	Glu	Ser	Lys	Pro	Lys	Lys	Gly	Val	Thr	Tyr	Pro	Ser	Ala	Leu
			140						145					150
Thr	Tyr	Ser	Ser	Ser	Lys	Ser	Pro	Ala	Ala	Gln	Ala	Gly	Glu	Thr
			155						160					165
Thr	Lys	Ala	Tyr	Gln	Arg	Pro	Pro	Ile	Pro	Gly	Thr	Thr	Ala	Gln
			170						175					180

P2730P1sequencelisting.txt

Pro	Val	Thr	Leu	Met	Gln	Leu	Leu	Ala	Val	Thr	Val	Ala	Val	Ala	
				185					190					195	
Thr	Pro	Thr	Thr	Leu	Pro	Arg	Pro	Ser	Pro	Ser	Ala	Ala	Ser	Thr	
				200					205					210	
Thr	Ser	Ile	Pro	Arg	Pro	Gln	Ser	Val	Gly	His	Arg	Ser	Gln	Glu	
				215					220					225	
Met	Asp	Leu	Trp	Ser	Thr	Ala	Thr	Tyr	Thr	Ser	Ser	Gln	Asn	Arg	
				230					235					240	
Pro	Arg	Ala	Asp	Pro	Gly	Ile	Gln	Arg	Gln	Asp	Pro	Ser	Gly	Ala	
				245					250					255	
Ala	Phe	Gln	Lys	Pro	Val	Gly	Ala	Asp	Val	Ser	Leu	Gly	Leu	Val	
				260					265					270	
Pro	Lys	Glu	Glu	Leu	Ser	Thr	Gln	Ser	Leu	Glu	Pro	Val	Ser	Leu	
				275					280					285	
Gly	Asp	Pro	Asn	Cys	Lys	Ile	Asp	Leu	Ser	Phe	Leu	Ile	Asp	Gly	
				290					295					300	
Ser	Thr	Ser	Ile	Gly	Lys	Arg	Arg	Phe	Arg	Ile	Gln	Lys	Gln	Leu	
				305					310					315	
Leu	Ala	Asp	Val	Ala	Gln	Ala	Leu	Asp	Ile	Gly	Pro	Ala	Gly	Pro	
				320					325					330	
Leu	Met	Gly	Val	Val	Gln	Tyr	Gly	Asp	Asn	Pro	Ala	Thr	His	Phe	
				335					340					345	
Asn	Leu	Lys	Thr	His	Thr	Asn	Ser	Arg	Asp	Leu	Lys	Thr	Ala	Ile	
				350					355					360	
Glu	Lys	Ile	Thr	Gln	Arg	Gly	Gly	Leu	Ser	Asn	Val	Gly	Arg	Ala	
				365					370					375	
Ile	Ser	Phe	Val	Thr	Lys	Asn	Phe	Phe	Ser	Lys	Ala	Asn	Gly	Asn	
				380					385					390	
Arg	Ser	Gly	Ala	Pro	Asn	Val	Val	Val	Val	Met	Val	Asp	Gly	Trp	
				395					400					405	
Pro	Thr	Asp	Lys	Val	Glu	Glu	Ala	Ser	Arg	Leu	Ala	Arg	Glu	Ser	
				410					415					420	
Gly	Ile	Asn	Ile	Phe	Phe	Ile	Thr	Ile	Glu	Gly	Ala	Ala	Glu	Asn	
				425					430					435	
Glu	Lys	Gln	Tyr	Val	Val	Glu	Pro	Asn	Phe	Ala	Asn	Lys	Ala	Val	
				440					445					450	
Cys	Arg	Thr	Asn	Gly	Phe	Tyr	Ser	Leu	His	Val	Gln	Ser	Trp	Phe	
				455					460					465	
Gly	Leu	His	Lys	Thr	Leu	Gln	Pro	Leu	Val	Lys	Arg	Val	Cys	Asp	
				470					475					480	
Thr	Asp	Arg	Leu	Ala	Cys	Ser	Lys	Thr	Cys	Leu	Asn	Ser	Ala	Asp	
				485					490					495	
Ile	Gly	Phe	Val	Ile	Asp	Gly	Ser	Ser	Ser	Val	Gly	Thr	Gly	Asn	
				500					505					510	
Phe	Arg	Thr	Val	Leu	Gln	Phe	Val	Thr	Asn	Leu	Thr	Lys	Glu	Phe	

P2730P1sequencelisting.txt

515		520	525
Glu Ile Ser Asp	Thr Asp Thr Arg Ile	Gly Ala Val Gln Tyr	Thr
530		535	540
Tyr Glu Gln Arg	Leu Glu Phe Gly Phe	Asp Lys Tyr Ser Ser	Lys
545		550	555
Pro Asp Ile Leu	Asn Ala Ile Lys Arg	Val Gly Tyr Trp Ser	Gly
560		565	570
Gly Thr Ser Thr	Gly Ala Ala Ile Asn	Phe Ala Leu Glu Gln	Leu
575		580	585
Phe Lys Lys Ser	Lys Pro Asn Lys Arg	Lys Leu Met Ile Leu	Ile
590		595	600
Thr Asp Gly Arg	Ser Tyr Asp Asp Val	Arg Ile Pro Ala Met	Ala
605		610	615
Ala His Leu Lys	Gly Val Ile Thr Tyr	Ala Ile Gly Val Ala	Trp
620		625	630
Ala Ala Gln Glu	Glu Leu Glu Val Ile	Ala Thr His Pro Ala	Arg
635		640	645
Asp His Ser Phe	Phe Val Asp Glu Phe	Asp Asn Leu His Gln	Tyr
650		655	660
Val Pro Arg Ile	Ile Gln Asn Ile Cys	Thr Glu Phe Asn Ser	Gln
665		670	675

Pro Arg Asn

<210> 180
 <211> 1759
 <212> DNA
 <213> Homo sapiens

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 gcgctgctgc ctcagcacca tgggtgcgcca ggtccccgacg gctccgcgcc 150
 agatccccgcc cactacagtt tttctctgac tctaattgat gcactggaca 200
 ccttgctgat tttggggaat gtctcagaat tccaaagagt ggttgaagtg 250
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 aacaaacatt cgagtggtag gaggactcct gtctgctcat ctgctctcca 350
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 tggtcggcaa ccacattgat gtgctcactg gcaagtgggt ggcccaggac 700

P2730P1sequencelisting.txt

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<212> PRT
<213> Homo sapiens

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20 25 30
Asp Pro Ala His Tyr Ser Phe Ser Leu Thr Leu Ile Asp Ala Leu
35 40 45
Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg Val
50 55 60
Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn
65 70 75
Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu
80 85 90

P2730P1sequencelisting.txt

Ser	Ala	His	Leu	Leu	Ser	Lys	Lys	Ala	Gly	Val	Glu	Val	Glu	Ala
				95					100					105
Gly	Trp	Pro	Cys	Ser	Gly	Pro	Leu	Leu	Arg	Met	Ala	Glu	Glu	Ala
				110					115					120
Ala	Arg	Lys	Leu	Leu	Pro	Ala	Phe	Gln	Thr	Pro	Thr	Gly	Met	Pro
				125					130					135
Tyr	Gly	Thr	Val	Asn	Leu	Leu	His	Gly	Val	Asn	Pro	Gly	Glu	Thr
				140					145					150
Pro	Val	Thr	Cys	Thr	Ala	Gly	Ile	Gly	Thr	Phe	Ile	Val	Glu	Phe
				155					160					165
Ala	Thr	Leu	Ser	Ser	Leu	Thr	Gly	Asp	Pro	Val	Phe	Glu	Asp	Val
				170					175					180
Ala	Arg	Val	Ala	Leu	Met	Arg	Leu	Trp	Glu	Ser	Arg	Ser	Asp	Ile
				185					190					195
Gly	Leu	Val	Gly	Asn	His	Ile	Asp	Val	Leu	Thr	Gly	Lys	Trp	Val
				200					205					210
Ala	Gln	Asp	Ala	Gly	Ile	Gly	Ala	Gly	Val	Asp	Ser	Tyr	Phe	Glu
				215					220					225
Tyr	Leu	Val	Lys	Gly	Ala	Ile	Leu	Leu	Gln	Asp	Lys	Lys	Leu	Met
				230					235					240
Ala	Met	Phe	Leu	Glu	Tyr	Asn	Lys	Ala	Ile	Arg	Asn	Tyr	Thr	Arg
				245					250					255
Phe	Asp	Asp	Trp	Tyr	Leu	Trp	Val	Gln	Met	Tyr	Lys	Gly	Thr	Val
				260					265					270
Ser	Met	Pro	Val	Phe	Gln	Ser	Leu	Glu	Ala	Tyr	Trp	Pro	Gly	Leu
				275					280					285
Gln	Ser	Leu	Ile	Gly	Asp	Ile	Asp	Asn	Ala	Met	Arg	Thr	Phe	Leu
				290					295					300
Asn	Tyr	Tyr	Thr	Val	Trp	Lys	Gln	Phe	Gly	Gly	Leu	Pro	Glu	Phe
				305					310					315
Tyr	Asn	Ile	Pro	Gln	Gly	Tyr	Thr	Val	Glu	Lys	Arg	Glu	Gly	Tyr
				320					325					330
Pro	Leu	Arg	Pro	Glu	Leu	Ile	Glu	Ser	Ala	Met	Tyr	Leu	Tyr	Arg
				335					340					345
Ala	Thr	Gly	Asp	Pro	Thr	Leu	Leu	Glu	Leu	Gly	Arg	Asp	Ala	Val
				350					355					360
Glu	Ser	Ile	Glu	Lys	Ile	Ser	Lys	Val	Glu	Cys	Gly	Phe	Ala	Thr
				365					370					375
Ile	Lys	Asp	Leu	Arg	Asp	His	Lys	Leu	Asp	Asn	Arg	Met	Glu	Ser
				380					385					390
Phe	Phe	Leu	Ala	Glu	Thr	Val	Lys	Tyr	Leu	Tyr	Leu	Leu	Phe	Asp
				395					400					405
Pro	Thr	Asn	Phe	Ile	His	Asn	Asn	Gly	Ser	Thr	Phe	Asp	Ala	Val
				410					415					420
Ile	Thr	Pro	Tyr	Gly	Glu	Cys	Ile	Leu	Gly	Ala	Gly	Gly	Tyr	Ile

P2730P1sequencelisting.txt

425		430	435
Phe Asn Thr Glu Ala His Pro Ile Asp Leu Ala Ala Leu His Cys			
440		445	450
Cys Gln Arg Leu Lys Glu Glu Gln Trp Glu Val Glu Asp Leu Met			
455		460	465
Arg Glu Phe Tyr Ser Leu Lys Arg Ser Arg Ser Lys Phe Gln Lys			
470		475	480
Asn Thr Val Ser Ser Gly Pro Trp Glu Pro Pro Ala Arg Pro Gly			
485		490	495
Thr Leu Phe Ser Pro Glu Asn His Asp Gln Ala Arg Glu Arg Lys			
500		505	510
Pro Ala Lys Gln Lys Val Pro Leu Leu Ser Cys Pro Ser Gln Pro			
515		520	525
Phe Thr Ser Lys Leu Ala Leu Leu Gly Gln Val Phe Leu Asp Ser			
530		535	540
Ser			

<210> 182
 <211> 2056
 <212> DNA
 <213> Homo sapiens

<400> 182
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 tcagctccaa catatgcatt ctgaagaaag atggctgaga tggacagaat 200
 gctttattttt ggaaagaaac aatgttctag gtcaaactga gtctaccaaa 250
 tgcagacttt cacaatgggt ctagaagaaa tctggacaag tcttttcatg 300
 tggtttttct acgcattgat tccatgtttg ctcacagatg aagtggccat 350
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 tcttgatgtg gagcccagtg atcgcgcctg gagaaacagt gtactattct 450
 gtcgaatacc aggggggagta cgagagcctg tacacgagcc acatctggat 500
 ccccagcagc tggtgctcac tcaactgaagg tcctgagtgt gatgtcactg 550
 atgacatcac ggccactgtg ccatacaacc ttcgtgtcag ggccacattg 600
 ggctcacaga cctcagcctg gagcatcctg aagcatccct ttaatagaaa 650
 ctcaaccatc cttacccgac ctgggatgga gatcaccaa gatggcttcc 700
 acctgggttat tgagctggag gacctggggc ccagtttga gttccttgtg 750
 gcctactgga ggagggagcc tggtgccgag gaacatgtca aaatggtgag 800
 gagtgggggt attccagtg acctagaaac catggagcca ggggctgcat 850
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P2730P1sequencelisting.txt

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cactgttcgt ctggaaaatg ggccggctgc tccagtactc ctgttgcccc 1050
gtggtggtcc tcccagacac cttgaaaata accaattcac cccagaagtt 1100
aatcagctgc agaagggagg aggtggatgc ctgtgccacg gctgtgatgt 1150
ctcctgagga actcctcagg gcctggatct cataggtttg cggaagggcc 1200
caggtgaagc cgagaacctg gtctgcatga catggaaacc atgaggggac 1250
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gagcctgttg tctacaagtc tagaagcaac catcagaggc aggggtggtt 1350
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ggctgccact tgctggctga gcaaccctgg gaaaagtgc ttcatccctt 1450
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gtaacatgtg catgtttgtt gtgtccttt tttctgttgg taaagtacag 2000
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<210> 183
<211> 311
<212> PRT
<213> Homo sapiens

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<220>
<221> signal peptide
<222> 1-29
<223> signal peptide

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<220>
<221> N-glycosylation sites
<222> 40-43, 134-137
<223> N-glycosylation sites.

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<220>
<221> Tissue factor proteins homology
<222> 92-119
<223> Tissue factor proteins homology

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P2730P1sequencelisting.txt

<220>
 <221> Transmembrane domain
 <222> 230-255
 <223> Transmembrane domain

<220>
 <221> Integrins alpha chain protein homology
 <222> 232-262
 <223> Integrins alpha chain protein homology

<400> 183
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 Phe Met Trp Phe Phe Tyr Ala Leu Ile Pro Cys Leu Leu Thr Asp
 20 25 30
 Glu Val Ala Ile Leu Pro Ala Pro Gln Asn Leu Ser Val Leu Ser
 35 40 45
 Thr Asn Met Lys His Leu Leu Met Trp Ser Pro Val Ile Ala Pro
 50 55 60
 Gly Glu Thr Val Tyr Tyr Ser Val Glu Tyr Gln Gly Glu Tyr Glu
 65 70 75
 Ser Leu Tyr Thr Ser His Ile Trp Ile Pro Ser Ser Trp Cys Ser
 80 85 90
 Leu Thr Glu Gly Pro Glu Cys Asp Val Thr Asp Asp Ile Thr Ala
 95 100 105
 Thr Val Pro Tyr Asn Leu Arg Val Arg Ala Thr Leu Gly Ser Gln
 110 115 120
 Thr Ser Ala Trp Ser Ile Leu Lys His Pro Phe Asn Arg Asn Ser
 125 130 135
 Thr Ile Leu Thr Arg Pro Gly Met Glu Ile Thr Lys Asp Gly Phe
 140 145 150
 His Leu Val Ile Glu Leu Glu Asp Leu Gly Pro Gln Phe Glu Phe
 155 160 165
 Leu Val Ala Tyr Trp Arg Arg Glu Pro Gly Ala Glu Glu His Val
 170 175 180
 Lys Met Val Arg Ser Gly Gly Ile Pro Val His Leu Glu Thr Met
 185 190 195
 Glu Pro Gly Ala Ala Tyr Cys Val Lys Ala Gln Thr Phe Val Lys
 200 205 210
 Ala Ile Gly Arg Tyr Ser Ala Phe Ser Gln Thr Glu Cys Val Glu
 215 220 225
 Val Gln Gly Glu Ala Ile Pro Leu Val Leu Ala Leu Phe Ala Phe
 230 235 240
 Val Gly Phe Met Leu Ile Leu Val Val Val Pro Leu Phe Val Trp
 245 250 255
 Lys Met Gly Arg Leu Leu Gln Tyr Ser Cys Cys Pro Val Val Val
 260 265 270
 Leu Pro Asp Thr Leu Lys Ile Thr Asn Ser Pro Gln Lys Leu Ile
 275 280 285

P2730P1sequencelisting.txt

Ser Cys Arg Arg Glu Glu Val Asp Ala Cys Ala Thr Ala Val Met
290 295 300

Ser Pro Glu Glu Leu Leu Arg Ala Trp Ile Ser
305 310

<210> 184
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 654, 711, 748
<223> unknown base

<400> 184
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agaatgcttt attttggaaa gaaacaatgt tctaggtcaa actgagtcta 200
ccaaatgcag actttcacaa tgggttctaga agaaatctgg acaagtcttt 250
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cactgatgac atcacggcca ctgtgccata caacctttgt gtcagggcca 550
cattgggctc acagacctca gcctggagca tcctgaagca tccctttaat 600
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gaacccttg cggccgctgg ggtatctctc gagaaaagag aggcccaata 800
tgaccac 808

<210> 185
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 185
aggcttcgct gcgactagac ctc 23

<210> 186
<211> 24
<212> DNA
<213> Artificial sequence

<220>

<223> synthetic oligonucleotide probe

<400> 186
ccaggtcggg taaggatggt tgag 24

<210> 187

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 187
tttctacgca ttgattccat gtttgctcac agatgaagtg gccattctgc 50

<210> 188

<211> 1227

<212> DNA

<213> Homo sapiens

<400> 188
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aggacttcta cgacttcaag gcggtcaaca tccggggcaa actggtgtcg 150
ctggagaagt accgcggatc ggtgtccctg gtggtgaatg tggccagcga 200
gtgcggcttc acagaccagc actaccgagc cctgcagcag ctgcagcgag 250
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cagcgtcgt gaggaagctc atcctactga agcgagaaga cttataacca 600
ccgcgtctcc tctccacca cctcatccc cccacctgtg tggggctgac 650
caatgcaaac tcaaatggtg cttcaaagg agagaccac tgactctcct 700
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caaaggttta gttgttgta tttcctctgt attattttct tcattacaaa 1150

P2730P1sequencelisting.txt

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taaaaaatgaa agtatcctcc tcaaaaa 1227

<210> 189

<211> 187

<212> PRT

<213> Homo sapiens

<400> 189

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20 25 30

Val Asn Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly
35 40 45

Ser Val Ser Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr
50 55 60

Asp Gln His Tyr Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly
65 70 75

Pro His His Phe Asn Val Leu Ala Phe Pro Cys Asn Gln Phe Gly
80 85 90

Gln Gln Glu Pro Asp Ser Asn Lys Glu Ile Glu Ser Phe Ala Arg
95 100 105

Arg Thr Tyr Ser Val Ser Phe Pro Met Phe Ser Lys Ile Ala Val
110 115 120

Thr Gly Thr Gly Ala His Pro Ala Phe Lys Tyr Leu Ala Gln Thr
125 130 135

Ser Gly Lys Glu Pro Thr Trp Asn Phe Trp Lys Tyr Leu Val Ala
140 145 150

Pro Asp Gly Lys Val Val Gly Ala Trp Asp Pro Thr Val Ser Val
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Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val Arg Lys Leu Ile
170 175 180

Leu Leu Lys Arg Glu Asp Leu
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<210> 190

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 190

gcaggacttc tacgacttca aggc 24

<210> 191

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

P2730P1sequencelisting.txt

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<210> 192
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 192
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<210> 193
<211> 2187
<212> DNA
<213> Homo sapiens

<400> 193
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  atggtacccc cacgatgttc gtggacattc tgaaccagcc agacttctcc 1150
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P2730P1sequencelisting.txt

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<210> 194

<211> 615

<212> PRT

<213> Homo sapiens

<400> 194

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			20					25					30	
Trp	Gln	Glu	Ala	Arg	Leu	Gln	Gly	Val	Arg	Phe	Leu	Ser	Ser	Arg
			35					40					45	
Glu	Val	Asp	Arg	Met	Val	Ser	Thr	Pro	Ile	Gly	Gly	Leu	Ser	Tyr
			50					55					60	
Val	Gln	Gly	Cys	Thr	Lys	Lys	His	Leu	Asn	Ser	Lys	Thr	Val	Gly
			65					70					75	
Gln	Cys	Leu	Glu	Thr	Thr	Ala	Gln	Arg	Val	Pro	Glu	Arg	Glu	Ala
			80					85					90	
Leu	Val	Val	Leu	His	Glu	Asp	Val	Arg	Leu	Thr	Phe	Ala	Gln	Leu
			95					100					105	
Lys	Glu	Glu	Val	Asp	Lys	Ala	Ala	Ser	Gly	Leu	Leu	Ser	Ile	Gly

P2730P1sequencelisting.txt

110	115	120
Leu Cys Lys Gly Asp Arg Leu Gly Met	Trp Gly Pro Asn Ser Tyr	
125	130	135
Ala Trp Val Leu Met Gln Leu Ala Thr	Ala Gln Ala Gly Ile Ile	
140	145	150
Leu Val Ser Val Asn Pro Ala Tyr Gln	Ala Met Glu Leu Glu Tyr	
155	160	165
Val Leu Lys Lys Val Gly Cys Lys Ala	Leu Val Phe Pro Lys Gln	
170	175	180
Phe Lys Thr Gln Gln Tyr Tyr Asn Val	Leu Lys Gln Ile Cys Pro	
185	190	195
Glu Val Glu Asn Ala Gln Pro Gly Ala	Leu Lys Ser Gln Arg Leu	
200	205	210
Pro Asp Leu Thr Thr Val Ile Ser Val	Asp Ala Pro Leu Pro Gly	
215	220	225
Thr Leu Leu Leu Asp Glu Val Val Ala	Ala Gly Ser Thr Arg Gln	
230	235	240
His Leu Asp Gln Leu Gln Tyr Asn Gln	Gln Phe Leu Ser Cys His	
245	250	255
Asp Pro Ile Asn Ile Gln Phe Thr Ser	Gly Thr Thr Gly Ser Pro	
260	265	270
Lys Gly Ala Thr Leu Ser His Tyr Asn	Ile Val Asn Asn Ser Asn	
275	280	285
Ile Leu Gly Glu Arg Leu Lys Leu His	Glu Lys Thr Pro Glu Gln	
290	295	300
Leu Arg Met Ile Leu Pro Asn Pro Leu	Tyr His Cys Leu Gly Ser	
305	310	315
Val Ala Gly Thr Met Met Cys Leu Met	Tyr Gly Ala Thr Leu Ile	
320	325	330
Leu Ala Ser Pro Ile Phe Asn Gly Lys	Lys Ala Leu Glu Ala Ile	
335	340	345
Ser Arg Glu Arg Gly Thr Phe Leu Tyr	Gly Thr Pro Thr Met Phe	
350	355	360
Val Asp Ile Leu Asn Gln Pro Asp Phe	Ser Ser Tyr Asp Ile Ser	
365	370	375
Thr Met Cys Gly Gly Val Ile Ala Gly	Ser Pro Ala Pro Pro Glu	
380	385	390
Leu Ile Arg Ala Ile Ile Asn Lys Ile	Asn Met Lys Asp Leu Val	
395	400	405
Val Ala Tyr Gly Thr Thr Glu Asn Ser	Pro Val Thr Phe Ala His	
410	415	420
Phe Pro Glu Asp Thr Val Glu Gln Lys	Ala Glu Ser Val Gly Arg	
425	430	435
Ile Met Pro His Thr Glu Ala Arg Ile	Met Asn Met Glu Ala Gly	
440	445	450

P2730P1sequencelisting.txt

Thr	Leu	Ala	Lys	Leu	Asn	Thr	Pro	Gly	Glu	Leu	Cys	Ile	Arg	Gly	455	460	465
Tyr	Cys	Val	Met	Leu	Gly	Tyr	Trp	Gly	Glu	Pro	Gln	Lys	Thr	Glu	470	475	480
Glu	Ala	Val	Asp	Gln	Asp	Lys	Trp	Tyr	Trp	Thr	Gly	Asp	Val	Ala	485	490	495
Thr	Met	Asn	Glu	Gln	Gly	Phe	Cys	Lys	Ile	Val	Gly	Arg	Ser	Lys	500	505	510
Asp	Met	Ile	Ile	Arg	Gly	Gly	Glu	Asn	Ile	Tyr	Pro	Ala	Glu	Leu	515	520	525
Glu	Asp	Phe	Phe	His	Thr	His	Pro	Lys	Val	Gln	Glu	Val	Gln	Val	530	535	540
Val	Gly	Val	Lys	Asp	Asp	Arg	Met	Gly	Glu	Glu	Ile	Cys	Ala	Cys	545	550	555
Ile	Arg	Leu	Lys	Asp	Gly	Glu	Glu	Thr	Thr	Val	Glu	Glu	Ile	Lys	560	565	570
Ala	Phe	Cys	Lys	Gly	Lys	Ile	Ser	His	Phe	Lys	Ile	Pro	Lys	Tyr	575	580	585
Ile	Val	Phe	Val	Thr	Asn	Tyr	Pro	Leu	Thr	Ile	Ser	Gly	Lys	Ile	590	595	600
Gln	Lys	Phe	Lys	Leu	Arg	Glu	Gln	Met	Glu	Arg	His	Leu	Asn	Leu	605	610	615

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 <211> 642
 <212> DNA
 <213> Homo sapiens

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 ctctcccatc ttcaatggca agaaggcact ggaggccatc agcagagaga 200
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 cagccagact tctccagtta tgacatctcg accatgtgtg gaggtgtcat 300
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 cagggacgct ggcaaagctg aacacgcccg gggagctgtg catccgaggg 550
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 agtggatcag gacaagtggg attggacagg agatgtcgcc ac 642

<210> 196
 <211> 1575
 <212> DNA

<213> Homo sapiens

<400> 196

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ctctaagcac tgccctccct actccccgca tctttgggga atcggttccc 1500
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<210> 197

P2730P1sequencelisting.txt

<211> 346

<212> PRT

<213> Homo sapiens

<400> 197

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      20      25      30
Leu Glu Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser
      35      40      45
Pro Asn Lys Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val
      50      55      60
Cys Thr Glu Ala Val Gly Ala Val Glu Thr Ile His Gly Gln Phe
      65      70      75
Ser Leu Ala Val Arg Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn
      80      85      90
Asp Arg Gly Leu Asp Leu His Gly Leu Leu Ala Phe Ile Gln Leu
      95     100     105
Gln Gln Cys Ala Gln Asp Arg Cys Asn Ala Lys Leu Asn Leu Thr
     110     115     120
Ser Arg Ala Leu Asp Pro Ala Gly Asn Glu Ser Ala Tyr Pro Pro
     125     130     135
Asn Gly Val Glu Cys Tyr Ser Cys Val Gly Leu Ser Arg Glu Ala
     140     145     150
Cys Gln Gly Thr Ser Pro Pro Val Val Ser Cys Tyr Asn Ala Ser
     155     160     165
Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn Val Thr Leu Thr
     170     175     180
Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly Cys Val Gln
     185     190     195
Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly Phe Thr
     200     205     210
Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp Leu
     215     220     225
Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
     230     235     240
Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val
     245     250     255
Thr Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys
     260     265     270
Pro Met Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu
     275     280     285
His Glu Ala Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala
     290     295     300
Ala Gly His Gln Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys
     305     310     315

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P2730P1sequencelisting.txt

Gly Gly Pro Gln Gln Pro His Asn Lys Gly Cys Val Ala Pro Thr
320 325 330

Ala Gly Leu Ala Ala Leu Leu Leu Ala Val Ala Ala Gly Val Leu
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Leu

<210> 198
<211> 1657
<212> DNA
<213> Homo sapiens

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gtcctggcca gtgcagctga aaaggagaag gaaatggacc cttttcatta 150
tgattaccag accctgagga ttgggggact ggtgttcgct gtggtcctct 200
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catcaccgcc aatgcaacag agccccagaa gcagagaact gaagtgcagc 350
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ccaggagaag ccaagaactt gtgtgtcccc caccctatcc cctctaacac 500
cattcctcca cctgatgatg caactaacac ttgcctcccc actgcagcct 550
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cagtcctctg aattgggtct ctggcaggca atagttgaag gactcctgtt 1300
ccgttggggc cagcacaccg ggatggatgg agggagagca gaggcctttg 1350

P2730P1sequencelisting.txt

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 aacgagagtg ggaactcaac ccagatcccg cccctcctgt cctctgtgtt 1550
 cccgcggaaa ccaaccaaac cgtgcgctgt gaccattgc tgttctctgt 1600
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<210> 199
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 199
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 20 25 30
 His Tyr Asp Tyr Gln Thr Leu Arg Ile Gly Gly Leu Val Phe Ala 45
 35 40 45
 Val Val Leu Phe Ser Val Gly Ile Leu Leu Ile Leu Ser Arg Arg 60
 50 55 60
 Cys Lys Cys Ser Phe Asn Gln Lys Pro Arg Ala Pro Gly Asp Glu 75
 65 70 75
 Glu Ala Gln Val Glu Asn Leu Ile Thr Ala Asn Ala Thr Glu Pro 90
 80 85 90
 Gln Lys Gln Arg Thr Glu Val Gln Pro Ser Gly Gly Ser Leu Trp 105
 95 100 105
 Asn Leu Arg Arg Leu Leu Glu Pro Leu Asp Ala Asn Val Asp Ala 120
 110 115 120

<210> 200
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 200
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 aagaaagcac cattgagaat tatgcgtcac gacccgaggc ctttaacacc 150
 ccgttcctga acatcgacaa attgcatct gcgtttaagg ctgatgagtt 200
 cctgaactgg cagccctct ttgagtctat caaaaggaaa cttcctttcc 250
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 gatgccagtg gaccatgacc tccactggaa gagggggcta gcgtgagcgc 350
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P2730P1sequencelisting.txt

<210> 201
<211> 99
<212> PRT
<213> Homo sapiens

<400> 201
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Glu Ser Thr Ile Glu Asn Tyr Ala Ser Arg Pro Glu Ala Phe Asn
35 40 45
Thr Pro Phe Leu Asn Ile Asp Lys Leu Arg Ser Ala Phe Lys Ala
50 55 60
Asp Glu Phe Leu Asn Trp His Ala Leu Phe Glu Ser Ile Lys Arg
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Lys Leu Pro Phe Leu Asn Trp Asp Ala Phe Pro Lys Leu Lys Gly
80 85 90
Leu Arg Ser Ala Thr Pro Asp Ala Gln
95

<210> 202
<211> 678
<212> DNA
<213> Homo sapiens

<400> 202
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acaggtccca aggccatggg agatctctcc tgtggctttg ccggccactc 200
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attgtatatg aaagactgaa tagtgatg 678

<210> 203
<211> 52
<212> PRT
<213> Homo sapiens

<400> 203

P2730P1sequencelisting.txt

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 20 25 30
 Val Pro Thr Gln Glu Thr Gly Pro Lys Ala Met Gly Asp Leu Ser
 35 40 45
 Cys Gly Phe Ala Gly His Ser
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<210> 204
 <211> 1917
 <212> DNA
 <213> Homo sapiens

<400> 204
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P2730P1sequencelisting.txt

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 caattggatt tcaggttccc tttttgtgcc ttcatgcctt acttcttaat 1900
 gcctctctaa agccaaa 1917

<210> 205
 <211> 392
 <212> PRT
 <213> Homo sapiens

<400> 205
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 35 40 45
 Tyr Glu Pro Cys Ser Ser Gln Asn Cys Ser Cys Tyr His Gly Val
 50 55 60
 Ile Glu Glu Asp Leu Thr Pro Phe Arg Gly Gly Ile Ser Arg Lys
 65 70 75
 Met Met Ala Glu Val Val Arg Arg Lys Leu Gly Thr His Tyr Gln
 80 85 90
 Ile Thr Lys Asn Arg Leu Tyr Arg Glu Asn Asp Cys Met Phe Pro
 95 100 105
 Ser Arg Cys Ser Gly Val Glu His Phe Ile Leu Glu Val Ile Gly
 110 115 120
 Arg Leu Pro Asp Met Glu Met Val Ile Asn Val Arg Asp Tyr Pro
 125 130 135
 Gln Val Pro Lys Trp Met Glu Pro Ala Ile Pro Val Phe Ser Phe
 140 145 150
 Ser Lys Thr Ser Glu Tyr His Asp Ile Met Tyr Pro Ala Trp Thr
 155 160 165
 Phe Trp Glu Gly Gly Pro Ala Val Trp Pro Ile Tyr Pro Thr Gly

P2730P1sequencelisting.txt

170	175	180
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Ala Gln Trp Pro Trp 200	Lys Lys Lys Asn Ser 205	Thr Ala Tyr Phe Arg 210
Gly Ser Arg Thr Ser 215	Pro Glu Arg Asp Pro 220	Leu Ile Leu Leu Ser 225
Arg Lys Asn Pro Lys 230	Leu Val Asp Ala Glu 235	Tyr Thr Lys Asn Gln 240
Ala Trp Lys Ser Met 245	Lys Asp Thr Leu Gly 250	Lys Pro Ala Ala Lys 255
Asp Val His Leu Val 260	Asp His Cys Lys Tyr 265	Lys Tyr Leu Phe Asn 270
Phe Arg Gly Val Ala 275	Ala Ser Phe Arg Phe 280	Lys His Leu Phe Leu 285
Cys Gly Ser Leu Val 290	Phe His Val Gly Asp 295	Glu Trp Leu Glu Phe 300
Phe Tyr Pro Gln Leu 305	Lys Pro Trp Val His 310	Tyr Ile Pro Val Lys 315
Thr Asp Leu Ser Asn 320	Val Gln Glu Leu Leu 325	Gln Phe Val Lys Ala 330
Asn Asp Asp Val Ala 335	Gln Glu Ile Ala Glu 340	Arg Gly Ser Gln Phe 345
Ile Arg Asn His Leu 350	Gln Met Asp Asp Ile 355	Thr Cys Tyr Trp Glu 360
Asn Leu Leu Ser Glu 365	Tyr Ser Lys Phe Leu 370	Ser Tyr Asn Val Thr 375
Arg Arg Lys Gly Tyr 380	Asp Gln Ile Ile Pro 385	Lys Met Leu Lys Thr 390

Glu Leu

<210> 206
 <211> 1425
 <212> DNA
 <213> Homo sapiens

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 ggatgccgc cagggatggc tggctgccct gcaggaccgc agcatccttg 200
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 tggatgatgcg gtactgggag cccataccca aaggccctgt gttgtgggag 400

P2730P1sequencelisting.txt

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<210> 207

<211> 262

<212> PRT

<213> Homo sapiens

<400> 207

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				20					25					30
Leu	Arg	Pro	Leu	Leu	Gly	Gly	Ile	Pro	Glu	Ser	Gly	Gly	Pro	Asp
				35					40					45
Ala	Arg	Gln	Gly	Trp	Leu	Ala	Ala	Leu	Gln	Asp	Arg	Ser	Ile	Leu
				50					55					60
Ala	Pro	Leu	Ala	Trp	Asp	Leu	Gly	Leu	Leu	Leu	Phe	Val	Gly	
				65					70					75
Gln	His	Ser	Leu	Met	Ala	Ala	Glu	Arg	Val	Lys	Ala	Trp	Thr	Ser
				80					85					90
Arg	Tyr	Phe	Gly	Val	Leu	Gln	Arg	Ser	Leu	Tyr	Val	Ala	Cys	Thr

P2730P1sequencelisting.txt

95	100	105
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Lys Gly Pro Val Leu Trp Glu Ala Arg Ala Glu Pro Trp Ala Thr		
125	130	135
Trp Val Pro Leu Leu Cys Phe Val Leu His Val Ile Ser Trp Leu		
140	145	150
Leu Ile Phe Ser Ile Leu Leu Val Phe Asp Tyr Ala Glu Leu Met		
155	160	165
Gly Leu Lys Gln Val Tyr Tyr His Val Leu Gly Leu Gly Glu Pro		
170	175	180
Leu Ala Leu Lys Ser Pro Arg Ala Leu Arg Leu Phe Ser His Leu		
185	190	195
Arg His Pro Val Cys Val Glu Leu Leu Thr Val Leu Trp Val Val		
200	205	210
Pro Thr Leu Gly Thr Asp Arg Leu Leu Leu Ala Phe Leu Leu Thr		
215	220	225
Leu Tyr Leu Gly Leu Ala His Gly Leu Asp Gln Gln Asp Leu Arg		
230	235	240
Tyr Leu Arg Ala Gln Leu Gln Arg Lys Leu His Leu Leu Ser Arg		
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Pro Gln Asp Gly Glu Ala Glu		
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<210> 208

<211> 2095

<212> DNA

<213> Homo sapiens

<400> 208

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P2730P1sequencelisting.txt

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 tgtatatctt atgtggatta ccaatttaaa aatatatgta gttctgtgtc 1750
 aaaaaacttc ttactgaag ttatactgaa caaaatttta cctgtttttg 1800
 gtcatttata aagtacttca agatgttgca gtatttcaca gttattatta 1850
 tttaaaatta cttcaacttt gtgtttttta atgttttgac gatttcaata 1900
 caagataaaa aggatagtga atcattcttt acatgcaaac attttccagt 1950
 tacttaactg atcagtttat tattgataca tcactccatt aatgtaaagt 2000
 cataggtcat tattgcatat cagtaatctc ttggactttg ttaaataattt 2050
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<210> 209

<211> 331

<212> PRT

<213> Homo sapiens

<400> 209

Met Ala Ser Ala Leu Trp Thr Val Leu Pro Ser Arg Met Ser Leu
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Arg Ser Leu Lys Trp Ser Leu Leu Leu Leu Ser Leu Leu Ser Phe
 20 25 30

P2730P1sequencelisting.txt

Phe	Val	Met	Trp	Tyr ₃₅	Leu	Ser	Leu	Pro	His ₄₀	Tyr	Asn	Val	Ile	Glu ₄₅
Arg	Val	Asn	Trp	Met ₅₀	Tyr	Phe	Tyr	Glu	Tyr ₅₅	Glu	Pro	Ile	Tyr	Arg ₆₀
Gln	Asp	Phe	His	Phe ₆₅	Thr	Leu	Arg	Glu	His ₇₀	Ser	Asn	Cys	Ser	His ₇₅
Gln	Asn	Pro	Phe	Leu ₈₀	Val	Ile	Leu	Val	Thr ₈₅	Ser	His	Pro	Ser	Asp ₉₀
Val	Lys	Ala	Arg	Gln ₉₅	Ala	Ile	Arg	Val	Thr ₁₀₀	Trp	Gly	Glu	Lys	Lys ₁₀₅
Ser	Trp	Trp	Gly	Tyr ₁₁₀	Glu	Val	Leu	Thr	Phe ₁₁₅	Phe	Leu	Leu	Gly	Gln ₁₂₀
Glu	Ala	Glu	Lys	Glu ₁₂₅	Asp	Lys	Met	Leu	Ala ₁₃₀	Leu	Ser	Leu	Glu	Asp ₁₃₅
Glu	His	Leu	Leu	Tyr ₁₄₀	Gly	Asp	Ile	Ile	Arg ₁₄₅	Gln	Asp	Phe	Leu	Asp ₁₅₀
Thr	Tyr	Asn	Asn	Leu ₁₅₅	Thr	Leu	Lys	Thr	Ile ₁₆₀	Met	Ala	Phe	Arg	Trp ₁₆₅
Val	Thr	Glu	Phe	Cys ₁₇₀	Pro	Asn	Ala	Lys	Tyr ₁₇₅	Val	Met	Lys	Thr	Asp ₁₈₀
Thr	Asp	Val	Phe	Ile ₁₈₅	Asn	Thr	Gly	Asn	Leu ₁₉₀	Val	Lys	Tyr	Leu	Leu ₁₉₅
Asn	Leu	Asn	His	Ser ₂₀₀	Glu	Lys	Phe	Phe	Thr ₂₀₅	Gly	Tyr	Pro	Leu	Ile ₂₁₀
Asp	Asn	Tyr	Ser	Tyr ₂₁₅	Arg	Gly	Phe	Tyr	Gln ₂₂₀	Lys	Thr	His	Ile	Ser ₂₂₅
Tyr	Gln	Glu	Tyr	Pro ₂₃₀	Phe	Lys	Val	Phe	Pro ₂₃₅	Pro	Tyr	Cys	Ser	Gly ₂₄₀
Leu	Gly	Tyr	Ile	Met ₂₄₅	Ser	Arg	Asp	Leu	Val ₂₅₀	Pro	Arg	Ile	Tyr	Glu ₂₅₅
Met	Met	Gly	His	Val ₂₆₀	Lys	Pro	Ile	Lys	Phe ₂₆₅	Glu	Asp	Val	Tyr	Val ₂₇₀
Gly	Ile	Cys	Leu	Asn ₂₇₅	Leu	Leu	Lys	Val	Asn ₂₈₀	Ile	His	Ile	Pro	Glu ₂₈₅
Asp	Thr	Asn	Leu	Phe ₂₉₀	Phe	Leu	Tyr	Arg	Ile ₂₉₅	His	Leu	Asp	Val	Cys ₃₀₀
Gln	Leu	Arg	Arg	Val ₃₀₅	Ile	Ala	Ala	His	Gly ₃₁₀	Phe	Ser	Ser	Lys	Glu ₃₁₅
Ile	Ile	Thr	Phe	Trp ₃₂₀	Gln	Val	Met	Leu	Arg ₃₂₅	Asn	Thr	Thr	Cys	His ₃₃₀

Tyr

<210> 210
 <211> 745
 <212> DNA
 <213> Homo sapiens

P2730P1sequencelisting.txt

<400> 210

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gtgtcaacaa tgaacacaat gtggccaatg ttgacaataa caacggatgg 200
gactcctgga attccatctg ggattatgga aatggctttg ctgcaaccag 250
actctttcaa aagaagacat gcattgtgca caaaatgaac aaggaagtca 300
tgccctccat tcaatccctt gatgcactgg tcaaggaaaa gaagcttcag 350
ggtaagggac caggaggacc acctcccaag ggctgatgt actcagtcaa 400
cccaaacaaa gtcgatgacc tgagcaagtt cggaaaaaac attgcaaaca 450
tgtgtcgtgg gattccaaca tacatggctg aggagatgca agaggcaagc 500
ctgttttttt actcaggaac gtgctacacg accagtgtac tatggattgt 550
ggacatttcc ttctgtggag acacggtgga gaactaaaca attttttaaa 600
gccactatgg atttagtcat ctgaatatgc tgtgcagaaa aaatatgggc 650
tccagtgggt tttaccatgt cattctgaaa tttttctcta ctagttatgt 700
ttgatttctt taagtttcaa taaaatcatt tagcattgaa aaaaa 745

<210> 211

<211> 185

<212> PRT

<213> Homo sapiens

<400> 211

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Ala	Pro	Ala	Leu	Ala	Asn	Tyr	Asn	Ile	Asn	Val	Asn	Asp	Asp	Asn
				20					25					30
Asn	Asn	Ala	Gly	Ser	Gly	Gln	Gln	Ser	Val	Ser	Val	Asn	Asn	Glu
				35					40					45
His	Asn	Val	Ala	Asn	Val	Asp	Asn	Asn	Asn	Gly	Trp	Asp	Ser	Trp
				50					55					60
Asn	Ser	Ile	Trp	Asp	Tyr	Gly	Asn	Gly	Phe	Ala	Ala	Thr	Arg	Leu
				65					70					75
Phe	Gln	Lys	Lys	Thr	Cys	Ile	Val	His	Lys	Met	Asn	Lys	Glu	Val
				80					85					90
Met	Pro	Ser	Ile	Gln	Ser	Leu	Asp	Ala	Leu	Val	Lys	Glu	Lys	Lys
				95					100					105
Leu	Gln	Gly	Lys	Gly	Pro	Gly	Gly	Pro	Pro	Pro	Lys	Gly	Leu	Met
				110					115					120
Tyr	Ser	Val	Asn	Pro	Asn	Lys	Val	Asp	Asp	Leu	Ser	Lys	Phe	Gly
				125					130					135
Lys	Asn	Ile	Ala	Asn	Met	Cys	Arg	Gly	Ile	Pro	Thr	Tyr	Met	Ala
				140					145					150

P2730P1sequencelisting.txt

Glu Glu Met Gln Glu Ala Ser Leu Phe Phe Tyr Ser Gly Thr Cys
155 160 165

Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile Ser Phe Cys Gly
170 175 180

Asp Thr Val Glu Asn
185

<210> 212

<211> 1706

<212> DNA

<213> Homo sapiens

<400> 212

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atgaaataat ttaaaagggc ttcgctcata tataggaaaa tcgcatatgg 150
tcctagtatt aaattcttat tgcttactga tttttttgag ttaagagttg 200
ttatatgcta gaatatgagg atgtgaatat aaataagaga agaaaaaaga 250
ataaagtaga ttgagtctcc aattttatgt aagcttcaga agaactgggt 300
tgtttacatg caagcttata gttgaaatat ttttcaggaa ttacatgaat 350
gacagtcttc gaaccaatgt gtttgttcga tttcaaccag agactatagc 400
atgtgcttgc atctaccttg cagctagagc acttcagatt ccgttgccaa 450
ctcgtcccca ttggtttctt ctttttggtg ctacagaaga ggaaatccag 500
gaaatctgca tagaaacact taggctttat accagaaaaa agccaaacta 550
tgaattactg gaaaaagaag tagaaaaaag aaaagtagcc ttacaagaag 600
ccaaattaaa agcaaagggg ttgaatccgg atggaactcc agccctttca 650
accctgggtg gatthttctc agcctccaag ccatcatcac caagagaagt 700
aaaagctgaa gagaaatcac caatctccat taatgtgaag acagtcaaaa 750
aagaacctga ggatagacaa caggcttcca aaagccctta caatggtgta 800
agaaaagaca gcaagagaag tagaaatagc agaagtgcaa gtcgatcgag 850
gtcaagaaca cgatcacgtt ctagatcaca tactccaaga agacactata 900
ataataggcg gagtcgatct ggaacataca gctcgagatc aagaagcagg 950
tcccgcagtc acagtgaaag ccttcgaaga catcataatc atggttctcc 1000
tcaccttaag gccaaacata ccagagatga tttaaaaagt tcaaacagac 1050
atggtcataa aaggaaaaaa tctcgttctc gatctcagag caagtctcgg 1100
gatcactcag atgcagccaa gaaacacagg catgaaaggg gacatcatag 1150
ggacaggcgt gaacgatctc gtccttttga gaggtcccat aaaagcaagc 1200
accatggtgg cagtcgctca ggacatggca ggcacaggcg ctgactttct 1250
cttcctttga gcctgcatca gttcttggtt ttgcctatct acagtgtgat 1300
gtatggactc aatcaaaaac attaaacgca aactgattag gatttgattt 1350

P2730P1sequencelisting.txt

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gaactatggt aatttttttg cacattaaaa tgccctagca gtatctaatt 1450
aaaaaccatg gtcagggttca attgtacttt attatagttg tgtattgttt 1500
attgctataa gaactggagc gtgaattctg taaaaatgta tcttattttt 1550
atacagataa aattgcagac actgttctat ttaagtgggt atttgtttaa 1600
atgatggtga atactttctt aacctgggtt tgtctgcatg tgtaaagatt 1650
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aaaagt 1706

<210> 213

<211> 299

<212> PRT

<213> Homo sapiens

<400> 213

Met	Asn	Asp	Ser	Leu	Arg	Thr	Asn	Val	Phe	Val	Arg	Phe	Gln	Pro	1	5	10	15
Glu	Thr	Ile	Ala	Cys	Ala	Cys	Ile	Tyr	Leu	Ala	Ala	Arg	Ala	Leu	20	25	30	
Gln	Ile	Pro	Leu	Pro	Thr	Arg	Pro	His	Trp	Phe	Leu	Leu	Phe	Gly	35	40	45	
Thr	Thr	Glu	Glu	Glu	Ile	Gln	Glu	Ile	Cys	Ile	Glu	Thr	Leu	Arg	50	55	60	
Leu	Tyr	Thr	Arg	Lys	Lys	Pro	Asn	Tyr	Glu	Leu	Leu	Glu	Lys	Glu	65	70	75	
Val	Glu	Lys	Arg	Lys	Val	Ala	Leu	Gln	Glu	Ala	Lys	Leu	Lys	Ala	80	85	90	
Lys	Gly	Leu	Asn	Pro	Asp	Gly	Thr	Pro	Ala	Leu	Ser	Thr	Leu	Gly	95	100	105	
Gly	Phe	Ser	Pro	Ala	Ser	Lys	Pro	Ser	Ser	Pro	Arg	Glu	Val	Lys	110	115	120	
Ala	Glu	Glu	Lys	Ser	Pro	Ile	Ser	Ile	Asn	Val	Lys	Thr	Val	Lys	125	130	135	
Lys	Glu	Pro	Glu	Asp	Arg	Gln	Gln	Ala	Ser	Lys	Ser	Pro	Tyr	Asn	140	145	150	
Gly	Val	Arg	Lys	Asp	Ser	Lys	Arg	Ser	Arg	Asn	Ser	Arg	Ser	Ala	155	160	165	
Ser	Arg	Ser	Arg	Ser	Arg	Thr	Arg	Ser	Arg	Ser	Arg	Ser	His	Thr	170	175	180	
Pro	Arg	Arg	His	Tyr	Asn	Asn	Arg	Arg	Ser	Arg	Ser	Gly	Thr	Tyr	185	190	195	
Ser	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	His	Ser	Glu	Ser	Pro	200	205	210	
Arg	Arg	His	His	Asn	His	Gly	Ser	Pro	His	Leu	Lys	Ala	Lys	His	215	220	225	

P2730P1sequencelisting.txt

Thr Arg Asp Asp Leu Lys Ser Ser Asn Arg His Gly His Lys Arg
 230 235 240
 Lys Lys Ser Arg Ser Arg Ser Gln Ser Lys Ser Arg Asp His Ser
 245 250 255
 Asp Ala Ala Lys Lys His Arg His Glu Arg Gly His His Arg Asp
 260 265 270
 Arg Arg Glu Arg Ser Arg Ser Phe Glu Arg Ser His Lys Ser Lys
 275 280 285
 His His Gly Gly Ser Arg Ser Gly His Gly Arg His Arg Arg
 290 295

<210> 214
 <211> 730
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 72-73, 85, 91, 127, 226, 268, 454, 484, 513, 566, 663
 <223> unknown base

<400> 214
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 gcattgcttt ttacagaaat atattanctt tttagagtaa tttctagttt 150
 ggattgtaat atgaaattat ttaaaagggc ttcgctcata tataggaaaa 200
 tcgcatatgg tcctagtatt aaattnttat tgcttactga tttttttgag 250
 ttaagagttg ttatatgnta gaatatgagg atgtgaatat aaataagaga 300
 agaaaaaaga ataaagtaga ttgagtctcc aattttatgt aagcttcaga 350
 agaactgggt tgttttacatg caagcttata gttgaaatat ttttcaggaa 400
 ttacatgaat gacagtcttc gaaccaatgt gtttgttcga tttcaaccag 450
 agantatagc atgtgcttgc atctaccttg cagntagagc acttcagatt 500
 ccgttgccaa ctngtcccca ttggtttctt ctttttggtg ctacagaaga 550
 ggaaatccag gaaatntgca tagaaacact taggctttat accagaaaaa 600
 agccaaacta tgaattactg gaaaaagaag tagaaaaaag aaaagtagcc 650
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<210> 215
 <211> 1807
 <212> DNA
 <213> Homo sapiens

<400> 215
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 ccaccctcat gcacaggctg gcgccacact gctccttcgc gcgctggctg 150

P2730P1sequencelisting.txt

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tcggggccctg gcggggaagc cgaggcccag aggcaggaaa gagcgggtggg 250
ccaatggcct tagtgaggag aagccactgt ctgtgccccg agatgccccg 300
ttccagctgg agacctgccc cctcacgacc gtggatgccc tggctctgcg 350
cttcttctctg gagtaccagt ggtttggtga ctttgctgtg tactcgggcg 400
gcgtgtacct cttcacagag gcctactact acatgctggg accagccaag 450
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tggctctggcc agcatgaccc agaacttaga gccacttctg aagaagcagg 700
gctgggactg ggcgtttctt gtggccaagc tggctatccg cgtgggactg 750
gcagtgggtg gctctgtgct gggtgccttc ctcaccttc caggcctgcg 800
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tgctgcagtt cctcctgcac accagcttcc tgtctcccct gttcatcctg 900
tggctctgga caaagcccat tgcacgggac ttctgcacc agccgccgtt 950
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gcgaagggag gctggccgca tcgaagccc tgaaatccag cagaggggtg 1150
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ctcatcctca ccctcaactg cacacttctg ctcaagacgc tgggaggcta 1250
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gcgcggattg ccggggccct gggtggcctg cttactcccc tcttctctcg 1400
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cctgcagacc ctcttggggc cctgaggtct gttcttgggg cagcgggaca 1550
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P2730P1sequencelisting.txt

<210> 216
 <211> 479
 <212> PRT
 <213> Homo sapiens

<400> 216
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 Leu Leu Cys Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu
 35 40 45
 Glu Glu Leu Arg Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg
 50 55 60
 Lys Glu Arg Trp Ala Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser
 65 70 75
 Val Pro Arg Asp Ala Pro Phe Gln Leu Glu Thr Cys Pro Leu Thr
 80 85 90
 Thr Val Asp Ala Leu Val Leu Arg Phe Phe Leu Glu Tyr Gln Trp
 95 100 105
 Phe Val Asp Phe Ala Val Tyr Ser Gly Gly Val Tyr Leu Phe Thr
 110 115 120
 Glu Ala Tyr Tyr Tyr Met Leu Gly Pro Ala Lys Glu Thr Asn Ile
 125 130 135
 Ala Val Phe Trp Cys Leu Leu Thr Val Thr Phe Ser Ile Lys Met
 140 145 150
 Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser Ala Glu Glu Gly Gly
 155 160 165
 Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe Leu Leu Leu
 170 175 180
 Ala Met Leu Val Gln Val Val Arg Glu Glu Thr Leu Glu Leu Gly
 185 190 195
 Leu Glu Pro Gly Leu Ala Ser Met Thr Gln Asn Leu Glu Pro Leu
 200 205 210
 Leu Lys Lys Gln Gly Trp Asp Trp Ala Leu Pro Val Ala Lys Leu
 215 220 225
 Ala Ile Arg Val Gly Leu Ala Val Val Gly Ser Val Leu Gly Ala
 230 235 240
 Phe Leu Thr Phe Pro Gly Leu Arg Leu Ala Gln Thr His Arg Asp
 245 250 255
 Ala Leu Thr Met Ser Glu Asp Arg Pro Met Leu Gln Phe Leu Leu
 260 265 270
 His Thr Ser Phe Leu Ser Pro Leu Phe Ile Leu Trp Leu Trp Thr
 275 280 285
 Lys Pro Ile Ala Arg Asp Phe Leu His Gln Pro Pro Phe Gly Glu
 290 295 300
 Thr Arg Phe Ser Leu Leu Ser Asp Ser Ala Phe Asp Ser Gly Arg
 305 310 315

P2730P1sequencelisting.txt

Leu Trp Leu Leu Val Val Leu Cys Leu Leu Arg Leu Ala Val Thr
320 325 330
Arg Pro His Leu Gln Ala Tyr Leu Cys Leu Ala Lys Ala Arg Val
335 340 345
Glu Gln Leu Arg Arg Glu Ala Gly Arg Ile Glu Ala Arg Glu Ile
350 355 360
Gln Gln Arg Val Val Arg Val Tyr Cys Tyr Val Thr Val Val Ser
365 370 375
Leu Gln Tyr Leu Thr Pro Leu Ile Leu Thr Leu Asn Cys Thr Leu
380 385 390
Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp Gly Leu Gly Pro Ala
395 400 405
Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser Ala Ala Pro Ile
410 415 420
Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala Arg Ile Ala
425 430 435
Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg Gly Val
440 445 450
Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu Ala
455 460 465
Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser
470 475

<210> 217
<211> 574
<212> DNA
<213> Homo sapiens

<220>
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<222> 5, 146
<223> unknown base

<400> 217
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ggaggagctt cggggccctgg cggggaagcc gaggcccaga ggcaggaaag 200
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ccagccaagg agactaacat tgctgtgttc tggtagcctgc tcacagtgc 450
ctttccatc aagatgttcc tgacagtgc acggctgtac ttcagcgccg 500
aggagggggg tgagcgctct gtctgcctca cctttgcctt cctcttcctg 550
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P2730P1sequencelisting.txt

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 <211> 2571
 <212> DNA
 <213> Homo sapiens

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 ttgtgatcta ctgattgtgg gggcatggca aggtttgctt aaaggagctt 150
 ggctggtttg ggcccttgta gctgacagaa ggtggccagg gagaatgcag 200
 cacactgctc ggagaatgaa ggcgcttctg ttgctggtct tgccttggt 250
 cagtctgct aactacattg acaatgtggg caacctgcac ttcctgtatt 300
 cagaactctg taaagggtgcc tcccactacg gcctgaccaa agataggaag 350
 aggcgctcac aagatggctg tccagacggc tgtgagagcc tcacagccac 400
 ggctccctcc ccagaggttt ctgcagctgc caccatctcc ttaatgacag 450
 acgagcctgg cctagacaac cctgcctacg tgcctcggc agaggacggg 500
 cagccagcaa tcagcccagt ggactctggc cggagcaacc gaactagggc 550
 acggcccttt gagagatcca ctattagaag cagatcattt aaaaaataa 600
 atcgagcttt gagtgttctt cgaaggacaa agagcgggag tgcagttgcc 650
 aaccatgccg accagggcag ggaaaattct gaaaacacca ctgcccctga 700
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 tgatgggggtg atcgccagag acggccggt actgccagga gacatcattc 900
 taaagggtcaa cgggatggac atcagcaatg tccctcaca ctacgctgtg 950
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 acagaagttc cgcagcagga acaatggaca ggccccgat gcctacagac 1050
 cccgagatga cagctttcat gtgattctca acaaaagtag ccccgaggag 1100
 cagcttgga taaaactggt gcgcaagggt gatgagcctg gggttttcat 1150
 cttcaatgtg ctggatggcg gtgtggcata tcgacatggt cagcttgagg 1200
 agaatgaccg tgtgttagcc atcaatggac atgatcttcg atatggcagc 1250
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 cgtcgtgtcc cgccagggtc ggcagcggag ccctgacatc tttcaggaag 1350
 ccggctggaa cagcaatggc agctggtccc cagggccagg ggagaggagc 1400
 aacactcca agccctcca tcctacaatt acttgatcag agaagggtgt 1450
 aaatatcaa aaagaccccc gtgaatctct cggcatgacc gtcgcagggg 1500
 gagcatcaca tagagaatgg gatttgccta tctatgtcat cagtgttgag 1550

P2730P1sequencelisting.txt

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cccgaggag tcataagcag agatggaaga ataaaaacag gtgacatttt 1600
gttgaatgtg gatggggtcg aactgacaga ggtcagccgg agtgaggcag 1650
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gtcaaagagt atgagcccca ggaagactgc agcagcccag cagccctgga 1750
ctccaaccac aacatggccc caccagtga ctggtcccca tcctgggtca 1800
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cgaagaaaca cagctggaag tctgggcttc tgcattgtag gaggttatga 1900
agaatacaat ggaaacaaac cttttttcat caaatccatt gttgaaggaa 1950
caccagcata caatgatgga agaattagat gtggtgatat tcttcttgct 2000
gtcaatggta gaagtacatc aggaatgata catgcttgct tggcaagact 2050
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tgtatacccc actgaattca agctgattta aatttaaaat ttggtatatg 2450
ctgaagtctg ccaagggtag attatggcca tttttaattt acagctaaaa 2500
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<210> 219

<211> 632

<212> PRT

<213> Homo sapiens

<400> 219

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Asn Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu
          20          25          30
Leu Cys Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys
          35          40          45
Arg Arg Ser Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr
          50          55          60
Ala Thr Ala Pro Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser
          65          70          75
Leu Met Thr Asp Glu Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser
          80          85          90
Ser Ala Glu Asp Gly Gln Pro Ala Ile Ser Pro Val Asp Ser Gly

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P2730P1sequencelisting.txt

95	100	105
Arg Ser Asn Arg Thr	Arg Ala Arg Pro Phe Glu Arg Ser Thr	Ile
110	115	120
Arg Ser Arg Ser Phe	Lys Lys Ile Asn Arg Ala Leu Ser Val	Leu
125	130	135
Arg Arg Thr Lys Ser	Gly Ser Ala Val Ala Asn His Ala Asp	Gln
140	145	150
Gly Arg Glu Asn Ser	Glu Asn Thr Thr Ala Pro Glu Val Phe	Pro
155	160	165
Arg Leu Tyr His Leu	Ile Pro Asp Gly Glu Ile Thr Ser Ile	Lys
170	175	180
Ile Asn Arg Val Asp	Pro Ser Glu Ser Leu Ser Ile Arg Leu	Val
185	190	195
Gly Gly Ser Glu Thr	Pro Leu Val His Ile Ile Ile Gln His	Ile
200	205	210
Tyr Arg Asp Gly Val	Ile Ala Arg Asp Gly Arg Leu Leu Pro	Gly
215	220	225
Asp Ile Ile Leu Lys	Val Asn Gly Met Asp Ile Ser Asn Val	Pro
230	235	240
His Asn Tyr Ala Val	Arg Leu Leu Arg Gln Pro Cys Gln Val	Leu
245	250	255
Trp Leu Thr Val Met	Arg Glu Gln Lys Phe Arg Ser Arg Asn	Asn
260	265	270
Gly Gln Ala Pro Asp	Ala Tyr Arg Pro Arg Asp Asp Ser Phe	His
275	280	285
Val Ile Leu Asn Lys	Ser Ser Pro Glu Glu Gln Leu Gly Ile	Lys
290	295	300
Leu Val Arg Lys Val	Asp Glu Pro Gly Val Phe Ile Phe Asn	Val
305	310	315
Leu Asp Gly Gly Val	Ala Tyr Arg His Gly Gln Leu Glu Glu	Asn
320	325	330
Asp Arg Val Leu Ala	Ile Asn Gly His Asp Leu Arg Tyr Gly	Ser
335	340	345
Pro Glu Ser Ala Ala	His Leu Ile Gln Ala Ser Glu Arg Arg	Val
350	355	360
His Leu Val Val Ser	Arg Gln Val Arg Gln Arg Ser Pro Asp	Ile
365	370	375
Phe Gln Glu Ala Gly	Trp Asn Ser Asn Gly Ser Trp Ser Pro	Gly
380	385	390
Pro Gly Glu Arg Ser	Asn Thr Pro Lys Pro Leu His Pro Thr	Ile
395	400	405
Thr Cys His Glu Lys	Val Val Asn Ile Gln Lys Asp Pro Gly	Glu
410	415	420
Ser Leu Gly Met Thr	Val Ala Gly Gly Ala Ser His Arg Glu	Trp
425	430	435

P2730P1sequencelisting.txt

Asp	Leu	Pro	Ile	Tyr	Val	Ile	Ser	Val	Glu	Pro	Gly	Gly	Val	Ile
				440					445					450
Ser	Arg	Asp	Gly	Arg	Ile	Lys	Thr	Gly	Asp	Ile	Leu	Leu	Asn	Val
				455					460					465
Asp	Gly	Val	Glu	Leu	Thr	Glu	Val	Ser	Arg	Ser	Glu	Ala	Val	Ala
				470					475					480
Leu	Leu	Lys	Arg	Thr	Ser	Ser	Ser	Ile	Val	Leu	Lys	Ala	Leu	Glu
				485					490					495
Val	Lys	Glu	Tyr	Glu	Pro	Gln	Glu	Asp	Cys	Ser	Ser	Pro	Ala	Ala
				500					505					510
Leu	Asp	Ser	Asn	His	Asn	Met	Ala	Pro	Pro	Ser	Asp	Trp	Ser	Pro
				515					520					525
Ser	Trp	Val	Met	Trp	Leu	Glu	Leu	Pro	Arg	Cys	Leu	Tyr	Asn	Cys
				530					535					540
Lys	Asp	Ile	Val	Leu	Arg	Arg	Asn	Thr	Ala	Gly	Ser	Leu	Gly	Phe
				545					550					555
Cys	Ile	Val	Gly	Gly	Tyr	Glu	Glu	Tyr	Asn	Gly	Asn	Lys	Pro	Phe
				560					565					570
Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala	Tyr	Asn	Asp	Gly
				575					580					585
Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn	Gly	Arg	Ser
				590					595					600
Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu	Lys	Glu
				605					610					615
Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly	Thr
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Phe Leu

<210> 220
 <211> 773
 <212> DNA
 <213> Homo sapiens

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 ccaggcaaat ggtgctgacc atctttggga tacaatctca tggatacgag 150
 gtttttaaca tcatacagccc aagcaacaat ggtggcaatg ttcaggagac 200
 agtgacaatt gataatgaaa aaaataccgc catcgттаac atccatgcag 250
 gatcatgctc ttctaccaca atttttgact ataaacatgg ctacattgca 300
 tccagggtgc tctcccgaag agcctgcttt atcctgaaga tggaccatca 350
 gaacatccct cctctgaaca atctccaatg gtacatctat gagaaacagg 400
 ctctggacaa catgtttctcc aacaaataca cctgggtcaa gtacaaccct 450
 ctggagtctc tgatcaaaga cgtggattgg ttcttgcttg ggtcacccat 500

P2730P1sequencelisting.txt

tgagaaactc tgcaaacata tccctttgta taaggggggaa gtggttgaaa 550
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 ctcttgtttt atcttttcaa agaaatacat ccttggttta cactcaaaag 700
 tcaaattaaa ttctttccca atgccccaac taattttgag attcagtcag 750
 aaaatataaa tgctgtattt ata 773

<210> 221
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 221
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 20 25 30
 Asn Asn Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu
 35 40 45
 Lys Asn Thr Ala Ile Val Asn Ile His Ala Gly Ser Cys Ser Ser
 50 55 60
 Thr Thr Ile Phe Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val
 65 70 75
 Leu Ser Arg Arg Ala Cys Phe Ile Leu Lys Met Asp His Gln Asn
 80 85 90
 Ile Pro Pro Leu Asn Asn Leu Gln Trp Tyr Ile Tyr Glu Lys Gln
 95 100 105
 Ala Leu Asp Asn Met Phe Ser Asn Lys Tyr Thr Trp Val Lys Tyr
 110 115 120
 Asn Pro Leu Glu Ser Leu Ile Lys Asp Val Asp Trp Phe Leu Leu
 125 130 135
 Gly Ser Pro Ile Glu Lys Leu Cys Lys His Ile Pro Leu Tyr Lys
 140 145 150
 Gly Glu Val Val Glu Asn Thr His Asn Val Gly Ala Gly Gly Cys
 155 160 165
 Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile Ser Ile Cys Ala
 170 175 180
 Asp Ile His Val

<210> 222
 <211> 992
 <212> DNA
 <213> Homo sapiens

<400> 222
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 acccaccgag gcatggggct ccctgggctg ttctgcttgg ccgtgctggc 100
 tgccagcagc ttctccaagg cacgggagga agaaattacc cctgtggtct 150

P2730P1sequencelisting.txt

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 tggaaccaag aacatcaagg tggccaagaa ggtggtgaag acccagagc 300
 cggcctcctt caacctcaac gtcacactca agtccagtcc agacctgctc 350
 acctacttct gccgggcgtc ctccacctca ggtgcccattg tggacagtgc 400
 caggctacag atgcactggg agctgtggtc caagccagtg tctgagctgc 450
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 atctgccagg cgtcctcggg cagcccacct atcaccaaca gcctgatcgg 550
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 ccaacttctc cttcctgccg agccagacat cggactgggt ctggtgccag 650
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 agccatgtag aatgaaccgt ccagagagcc aagcacggca gaggactgca 900
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<210> 223

<211> 265

<212> PRT

<213> Homo sapiens

<400> 223

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				20					25					30
Ile	Ala	Tyr	Lys	Val	Leu	Glu	Val	Phe	Pro	Lys	Gly	Arg	Trp	Val
				35					40					45
Leu	Ile	Thr	Cys	Cys	Ala	Pro	Gln	Pro	Pro	Pro	Pro	Ile	Thr	Tyr
				50					55					60
Ser	Leu	Cys	Gly	Thr	Lys	Asn	Ile	Lys	Val	Ala	Lys	Lys	Val	Val
				65					70					75
Lys	Thr	His	Glu	Pro	Ala	Ser	Phe	Asn	Leu	Asn	Val	Thr	Leu	Lys
				80					85					90
Ser	Ser	Pro	Asp	Leu	Leu	Thr	Tyr	Phe	Cys	Arg	Ala	Ser	Ser	Thr
				95					100					105
Ser	Gly	Ala	His	Val	Asp	Ser	Ala	Arg	Leu	Gln	Met	His	Trp	Glu
				110					115					120
Leu	Trp	Ser	Lys	Pro	Val	Ser	Glu	Leu	Arg	Ala	Asn	Phe	Thr	Leu
				125					130					135

P2730P1sequencelisting.txt

Gln	Asp	Arg	Gly	Ala	Gly	Pro	Arg	Val	Glu	Met	Ile	Cys	Gln	Ala
				140					145					150
Ser	Ser	Gly	Ser	Pro	Pro	Ile	Thr	Asn	Ser	Leu	Ile	Gly	Lys	Asp
				155					160					165
Gly	Gln	Val	His	Leu	Gln	Gln	Arg	Pro	Cys	His	Arg	Gln	Pro	Ala
				170					175					180
Asn	Phe	Ser	Phe	Leu	Pro	Ser	Gln	Thr	Ser	Asp	Trp	Phe	Trp	Cys
				185					190					195
Gln	Ala	Ala	Asn	Asn	Ala	Asn	Val	Gln	His	Ser	Ala	Leu	Thr	Val
				200					205					210
Val	Pro	Pro	Gly	Gly	Asp	Gln	Lys	Met	Glu	Asp	Trp	Gln	Gly	Pro
				215					220					225
Leu	Glu	Ser	Pro	Ile	Leu	Ala	Leu	Pro	Leu	Tyr	Arg	Ser	Thr	Arg
				230					235					240
Arg	Leu	Ser	Glu	Glu	Glu	Phe	Gly	Gly	Phe	Arg	Ile	Gly	Asn	Gly
				245					250					255
Glu	Val	Arg	Gly	Arg	Lys	Ala	Ala	Ala	Met					
				260					265					

<210> 224
 <211> 1297
 <212> DNA
 <213> Homo sapiens

<400> 224
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 ctctctttgc tatgacatca ccgtcatccc taagttcaga cctggaccac 150
 ggtggtgtgc ggttcaaggc caggtggatg aaaagacttt tcttcactat 200
 gactgtggca acaagacagt cacacctgtc agtcccctgg ggaagaaact 250
 aaatgtcaca acggcctgga aagcacagaa cccagtactg agagaggtgg 300
 tggacatact tacagagcaa ctgctgtgaca ttcagctgga gaattacaca 350
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 gccagaaaga tgaaagaaaa gtgggagaat gacaagggtg tggccatgtc 550
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 ctacggtgta tgtccagtgg cctccagcag atcatgatga catcatggac 900

P2730P1sequencelisting.txt

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 ttcttgcaact taaagttctg gctgactaaa caagatatat cattttcttt 1050
 cttctctttt tgtttggaat atcaagtact tctttgaatg atgatctctt 1100
 tcttgcaaat gatattgtca gtaaaataat cacgttagac ttcagacctc 1150
 tggggattct ttccgtgtcc tgaaagagaa tttttaaatt atttaataag 1200
 aaaaaattta tattaatgat tgtttccttt agtaatttat tgttctgtac 1250
 tgatatttaa ataaagagtt ctatttccca aaaaaaaaaa aaaaaaa 1297

<210> 225

<211> 246

<212> PRT

<213> Homo sapiens

<400> 225

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Leu	Leu	Leu	Leu	Ser	Gly	Trp	Ser	Arg	Ala	Gly	Arg	Ala	Asp	Pro	20	25	30	
His	Ser	Leu	Cys	Tyr	Asp	Ile	Thr	Val	Ile	Pro	Lys	Phe	Arg	Pro	35	40	45	
Gly	Pro	Arg	Trp	Cys	Ala	Val	Gln	Gly	Gln	Val	Asp	Glu	Lys	Thr	50	55	60	
Phe	Leu	His	Tyr	Asp	Cys	Gly	Asn	Lys	Thr	Val	Thr	Pro	Val	Ser	65	70	75	
Pro	Leu	Gly	Lys	Lys	Leu	Asn	Val	Thr	Thr	Ala	Trp	Lys	Ala	Gln	80	85	90	
Asn	Pro	Val	Leu	Arg	Glu	Val	Val	Asp	Ile	Leu	Thr	Glu	Gln	Leu	95	100	105	
Arg	Asp	Ile	Gln	Leu	Glu	Asn	Tyr	Thr	Pro	Lys	Glu	Pro	Leu	Thr	110	115	120	
Leu	Gln	Ala	Arg	Met	Ser	Cys	Glu	Gln	Lys	Ala	Glu	Gly	His	Ser	125	130	135	
Ser	Gly	Ser	Trp	Gln	Phe	Ser	Phe	Asp	Gly	Gln	Ile	Phe	Leu	Leu	140	145	150	
Phe	Asp	Ser	Glu	Lys	Arg	Met	Trp	Thr	Thr	Val	His	Pro	Gly	Ala	155	160	165	
Arg	Lys	Met	Lys	Glu	Lys	Trp	Glu	Asn	Asp	Lys	Val	Val	Ala	Met	170	175	180	
Ser	Phe	His	Tyr	Phe	Ser	Met	Gly	Asp	Cys	Ile	Gly	Trp	Leu	Glu	185	190	195	
Asp	Phe	Leu	Met	Gly	Met	Asp	Ser	Thr	Leu	Glu	Pro	Ser	Ala	Gly	200	205	210	
Ala	Pro	Leu	Ala	Met	Ser	Ser	Gly	Thr	Thr	Gln	Leu	Arg	Ala	Thr	215	220	225	

P2730P1sequencelisting.txt

Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu Ile Ile Leu Pro Cys
230 235 240

Phe Ile Leu Pro Gly Ile
245

<210> 226
<211> 735
<212> DNA
<213> Homo sapiens

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caagttatat accgtggaat ggagttgatc ccaaccataa catcgtggag 150
ggtttttaatt ttggtggtag ccctcaccca attctggtgt ggcttttcttt 200
gcagaggatt ccaccttcaa aatcatgaac tctggctggt gatcaaaaga 250
gaatttggtat tctactctaa aagtcaatat aggacttggc aaaagaagct 300
agcagaagac tcaacctggc ctcccataaa caggacagat tattcaggtg 350
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ctggggccagg ctgtaatcag aattgtcgtc gtacatgctc aacagcattg 500
cttttttccc caaaattaac acattgtgga gaagtgatga tactctcccc 550
ttacctttcc tctctccatt caagcattca aagtatattt tcaatgaatt 600
aaaccttgca gcaagggacc ttagataggc ttattctgac tgtatgcttt 650
accaatgaga gaaaaaaatg catttcctgt atcatccttt tcaataaaact 700
gtattcattt tgaaaaaaa aaaaaaaaaa aaaaa 735

<210> 227
<211> 115
<212> PRT
<213> Homo sapiens

<400> 227
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20 25 30
Phe His Leu Gln Asn His Glu Leu Trp Leu Leu Ile Lys Arg Glu
35 40 45
Phe Gly Phe Tyr Ser Lys Ser Gln Tyr Arg Thr Trp Gln Lys Lys
50 55 60
Leu Ala Glu Asp Ser Thr Trp Pro Pro Ile Asn Arg Thr Asp Tyr
65 70 75
Ser Gly Asp Gly Lys Asn Gly Phe Tyr Ile Asn Gly Gly Tyr Glu
80 85 90
Ser His Glu Gln Ile Pro Lys Arg Lys Leu Lys Leu Gly Gly Gln
95 100 105

P2730P1sequencelisting.txt

Pro Thr Glu Gln His Phe Trp Ala Arg Leu
110 115

<210> 228
<211> 2185
<212> DNA
<213> Homo sapiens

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gtgcagccat cgctgctgcc gcctcagccg ggccccagaa ctgcccctcc 200
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P2730P1sequencelisting.txt

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 gttaccagcc ggcataatacc acctctacca cgggtgctcat tcagactacc 1550
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 caggaaactc aaatatgact cccctcccc aaaaaactta taaaatgcaa 2050
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<211> 653

<212> PRT

<213> Homo sapiens

<400> 229

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Ala	Ile	Leu	Leu	Pro	Phe	Val	Tyr	Leu	Thr	Ala	Gln	Val	Trp	Ile
				20					25					30
Leu	Cys	Ala	Ala	Ile	Ala	Ala	Ala	Ala	Ser	Ala	Gly	Pro	Gln	Asn
				35					40					45
Cys	Pro	Ser	Val	Cys	Ser	Cys	Ser	Asn	Gln	Phe	Ser	Lys	Val	Val
				50					55					60
Cys	Thr	Arg	Arg	Gly	Leu	Ser	Glu	Val	Pro	Gln	Gly	Ile	Pro	Ser
				65					70					75
Asn	Thr	Arg	Tyr	Leu	Asn	Leu	Met	Glu	Asn	Asn	Ile	Gln	Met	Ile
				80					85					90
Gln	Ala	Asp	Thr	Phe	Arg	His	Leu	His	His	Leu	Glu	Val	Leu	Gln
				95					100					105
Leu	Gly	Arg	Asn	Ser	Ile	Arg	Gln	Ile	Glu	Val	Gly	Ala	Phe	Asn
				110					115					120
Gly	Leu	Ala	Ser	Leu	Asn	Thr	Leu	Glu	Leu	Phe	Asp	Asn	Trp	Leu
				125					130					135
Thr	Val	Ile	Pro	Ser	Gly	Ala	Phe	Glu	Tyr	Leu	Ser	Lys	Leu	Arg
				140					145					150
Glu	Leu	Trp	Leu	Arg	Asn	Asn	Pro	Ile	Glu	Ser	Ile	Pro	Ser	Tyr
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P2730P1sequencelisting.txt

Ala Phe Asn Arg Val	Pro Ser Leu Met Arg	Leu Asp Leu Gly Glu
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Leu Lys Lys Leu Glu	Tyr Ile Ser Glu Gly	Ala Phe Glu Gly Leu
185	190	195
Phe Asn Leu Lys Tyr	Leu Asn Leu Gly Met	Cys Asn Ile Lys Asp
200	205	210
Met Pro Asn Leu Thr	Pro Leu Val Gly Leu	Glu Glu Leu Glu Met
215	220	225
Ser Gly Asn His Phe	Pro Glu Ile Arg Pro	Gly Ser Phe His Gly
230	235	240
Leu Ser Ser Leu Lys	Lys Leu Trp Val Met	Asn Ser Gln Val Ser
245	250	255
Leu Ile Glu Arg Asn	Ala Phe Asp Gly Leu	Ala Ser Leu Val Glu
260	265	270
Leu Asn Leu Ala His	Asn Asn Leu Ser Ser	Leu Pro His Asp Leu
275	280	285
Phe Thr Pro Leu Arg	Tyr Leu Val Glu Leu	His Leu His His Asn
290	295	300
Pro Trp Asn Cys Asp	Cys Asp Ile Leu Trp	Leu Ala Trp Trp Leu
305	310	315
Arg Glu Tyr Ile Pro	Thr Asn Ser Thr Cys	Cys Gly Arg Cys His
320	325	330
Ala Pro Met His Met	Arg Gly Arg Tyr Leu	Val Glu Val Asp Gln
335	340	345
Ala Ser Phe Gln Cys	Ser Ala Pro Phe Ile	Met Asp Ala Pro Arg
350	355	360
Asp Leu Asn Ile Ser	Glu Gly Arg Met Ala	Glu Leu Lys Cys Arg
365	370	375
Thr Pro Pro Met Ser	Ser Val Lys Trp Leu	Leu Pro Asn Gly Thr
380	385	390
Val Leu Ser His Ala	Ser Arg His Pro Arg	Ile Ser Val Leu Asn
395	400	405
Asp Gly Thr Leu Asn	Phe Ser His Val Leu	Leu Ser Asp Thr Gly
410	415	420
Val Tyr Thr Cys Met	Val Thr Asn Val Ala	Gly Asn Ser Asn Ala
425	430	435
Ser Ala Tyr Leu Asn	Val Ser Thr Ala Glu	Leu Asn Thr Ser Asn
440	445	450
Tyr Ser Phe Phe Thr	Thr Val Thr Val Glu	Thr Thr Glu Ile Ser
455	460	465
Pro Glu Asp Thr Thr	Arg Lys Tyr Lys Pro	Val Pro Thr Thr Ser
470	475	480
Thr Gly Tyr Gln Pro	Ala Tyr Thr Thr Ser	Thr Thr Val Leu Ile
485	490	495
Gln Thr Thr Arg Val	Pro Lys Gln Val Ala	Val Pro Ala Thr Asp

P2730P1sequencelisting.txt

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	515	520	525
Thr Lys Ile Ile	Ile Gly Cys Phe Val	Ala Val Thr Leu Leu	Ala
	530	535	540
Ala Ala Met Leu	Ile Val Phe Tyr Lys	Leu Arg Lys Arg His	Gln
	545	550	555
Gln Arg Ser Thr	Val Thr Ala Ala Arg	Thr Val Glu Ile Ile	Gln
	560	565	570
Val Asp Glu Asp	Ile Pro Ala Ala Thr	Ser Ala Ala Ala Thr	Ala
	575	580	585
Ala Pro Ser Gly	Val Ser Gly Glu Gly	Ala Val Val Leu Pro	Thr
	590	595	600
Ile His Asp His	Ile Asn Tyr Asn Thr	Tyr Lys Pro Ala His	Gly
	605	610	615
Ala His Trp Thr	Glu Asn Ser Leu Gly	Asn Ser Leu His Pro	Thr
	620	625	630
Val Thr Thr Ile	Ser Glu Pro Tyr Ile	Ile Gln Thr His Thr	Lys
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Asp Lys Val Gln	Glu Thr Gln Ile		
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 <213> Homo sapiens

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 tacacagtca ttaatgaagc ctgccctgga gcagagtgga atatcatgtg 150
 tcgggagtgc tgtgaatatg atcagattga gtgcgtctgc cccggaaaga 200
 ggggaagtcgt gggttataacc atcccttgct gcaggaatga ggagaatgag 250
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 gcataggatc ctactccac gtcctcttcc actccgatgg ctccaagaat 700
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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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<211> 720

<212> PRT

<213> Homo sapiens

<400> 231

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Leu	Leu	Leu	Ile	Ser	Ser	Leu	Pro	Arg	Glu	Tyr	Thr	Val	Ile	Asn
				20					25					30
Glu	Ala	Cys	Pro	Gly	Ala	Glu	Trp	Asn	Ile	Met	Cys	Arg	Glu	Cys
				35					40					45
Cys	Glu	Tyr	Asp	Gln	Ile	Glu	Cys	Val	Cys	Pro	Gly	Lys	Arg	Glu
				50					55					60
Val	Val	Gly	Tyr	Thr	Ile	Pro	Cys	Cys	Arg	Asn	Glu	Glu	Asn	Glu
				65					70					75
Cys	Asp	Ser	Cys	Leu	Ile	His	Pro	Gly	Cys	Thr	Ile	Phe	Glu	Asn
				80					85					90
Cys	Lys	Ser	Cys	Arg	Asn	Gly	Ser	Trp	Gly	Gly	Thr	Leu	Asp	Asp
				95					100					105
Phe	Tyr	Val	Lys	Gly	Phe	Tyr	Cys	Ala	Glu	Cys	Arg	Ala	Gly	Trp
				110					115					120
Tyr	Gly	Gly	Asp	Cys	Met	Arg	Cys	Gly	Gln	Val	Leu	Arg	Ala	Pro
				125					130					135
Lys	Gly	Gln	Ile	Leu	Leu	Glu	Ser	Tyr	Pro	Leu	Asn	Ala	His	Cys
				140					145					150
Glu	Trp	Thr	Ile	His	Ala	Lys	Pro	Gly	Phe	Val	Ile	Gln	Leu	Arg
				155					160					165
Phe	Val	Met	Leu	Ser	Leu	Glu	Phe	Asp	Tyr	Met	Cys	Gln	Tyr	Asp
				170					175					180
Tyr	Val	Glu	Val	Arg	Asp	Gly	Asp	Asn	Arg	Asp	Gly	Gln	Ile	Ile
				185					190					195
Lys	Arg	Val	Cys	Gly	Asn	Glu	Arg	Pro	Ala	Pro	Ile	Gln	Ser	Ile
				200					205					210
Gly	Ser	Ser	Leu	His	Val	Leu	Phe	His	Ser	Asp	Gly	Ser	Lys	Asn
				215					220					225
Phe	Asp	Gly	Phe	His	Ala	Ile	Tyr	Glu	Glu	Ile	Thr	Ala	Cys	Ser

P2730P1sequencelisting.txt

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245		250	255
Gly Ser Tyr Lys	Cys Ala Cys Leu Ala	Gly Tyr Thr Gly Gln	Arg
260		265	270
Cys Glu Asn Leu	Leu Glu Glu Arg Asn	Cys Ser Asp Pro Gly	Gly
275		280	285
Pro Val Asn Gly	Tyr Gln Lys Ile Thr	Gly Gly Pro Gly Leu	Ile
290		295	300
Asn Gly Arg His	Ala Lys Ile Gly Thr	Val Val Ser Phe Phe	Cys
305		310	315
Asn Asn Ser Tyr	Val Leu Ser Gly Asn	Glu Lys Arg Thr Cys	Gln
320		325	330
Gln Asn Gly Glu	Trp Ser Gly Lys Gln	Pro Ile Cys Ile Lys	Ala
335		340	345
Cys Arg Glu Pro	Lys Ile Ser Asp Leu	Val Arg Arg Arg Val	Leu
350		355	360
Pro Met Gln Val	Gln Ser Arg Glu Thr	Pro Leu His Gln Leu	Tyr
365		370	375
Ser Ala Ala Phe	Ser Lys Gln Lys Leu	Gln Ser Ala Pro Thr	Lys
380		385	390
Lys Pro Ala Leu	Pro Phe Gly Asp Leu	Pro Met Gly Tyr Gln	His
395		400	405
Leu His Thr Gln	Leu Gln Tyr Glu Cys	Ile Ser Pro Phe Tyr	Arg
410		415	420
Arg Leu Gly Ser	Ser Arg Arg Thr Cys	Leu Arg Thr Gly Lys	Trp
425		430	435
Ser Gly Arg Ala	Pro Ser Cys Ile Pro	Ile Cys Gly Lys Ile	Glu
440		445	450
Asn Ile Thr Ala	Pro Lys Thr Gln Gly	Leu Arg Trp Pro Trp	Gln
455		460	465
Ala Ala Ile Tyr	Arg Arg Thr Ser Gly	Val His Asp Gly Ser	Leu
470		475	480
His Lys Gly Ala	Trp Phe Leu Val Cys	Ser Gly Ala Leu Val	Asn
485		490	495
Glu Arg Thr Val	Val Val Ala Ala His	Cys Val Thr Asp Leu	Gly
500		505	510
Lys Val Thr Met	Ile Lys Thr Ala Asp	Leu Lys Val Val Leu	Gly
515		520	525
Lys Phe Tyr Arg	Asp Asp Asp Arg Asp	Glu Lys Thr Ile Gln	Ser
530		535	540
Leu Gln Ile Ser	Ala Ile Ile Leu His	Pro Asn Tyr Asp Pro	Ile
545		550	555
Leu Leu Asp Ala	Asp Ile Ala Ile Leu	Lys Leu Leu Asp Lys	Ala
560		565	570

P2730P1sequencelisting.txt

Arg Ile Ser Thr	Arg Val Gln Pro Ile	Cys Leu Ala Ala Ser	Arg
575		580	585
Asp Leu Ser Thr	Ser Phe Gln Glu Ser	His Ile Thr Val Ala	Gly
590		595	600
Trp Asn Val Leu	Ala Asp Val Arg Ser	Pro Gly Phe Lys Asn	Asp
605		610	615
Thr Leu Arg Ser	Gly Val Val Ser Val	Val Asp Ser Leu Leu	Cys
620		625	630
Glu Glu Gln His	Glu Asp His Gly Ile	Pro Val Ser Val Thr	Asp
635		640	645
Asn Met Phe Cys	Ala Ser Trp Glu Pro	Thr Ala Pro Ser Asp	Ile
650		655	660
Cys Thr Ala Glu	Thr Gly Gly Ile Ala	Ala Val Ser Phe Pro	Gly
665		670	675
Arg Ala Ser Pro	Glu Pro Arg Trp His	Leu Met Gly Leu Val	Ser
680		685	690
Trp Ser Tyr Asp	Lys Thr Cys Ser His	Arg Leu Ser Thr Ala	Phe
695		700	705
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<212> DNA

<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

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<210> 233

<211> 24

<212> DNA

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<220>

<223> Synthetic oligonucleotide probe

<400> 233

tgtcaaggac gcactgccgt catg 24

<210> 234

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

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<210> 235

<211> 1964

<212> DNA

<213> Homo sapiens

P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 tgtaaaatga ttttgtacaa gtaggatatg aattagcagt ttacaagttt 1900
 acatattaac taataataaa tatgtctatc aaatacctct gtagtaaaat 1950
 gtgaaaaagc aaaa 1964

<210> 236
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 <213> Homo sapiens

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 <223> Signal peptide

<220>
 <221> N-glycosylation sites
 <222> 4-7, 220-223, 335-338
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<220>
 <221> xylose isomerase proteins
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 35 40 45
 Glu Phe Met Ala Asn Phe His Lys Thr Leu Ile Leu Gly Lys Gly
 50 55 60
 Lys Thr Leu Thr Asn Glu Ala Ser Thr Lys Lys Val Glu Leu Asp
 65 70 75
 Asn Cys Pro Ser Val Ser Pro Tyr Leu Arg Gly Gln Ser Lys Leu
 80 85 90
 Ile Phe Lys Pro Asp Leu Thr Leu Glu Glu Val Gln Ala Glu Asn
 95 100 105
 Pro Lys Val Ser Arg Gly Arg Tyr Arg Pro Gln Glu Cys Lys Ala
 110 115 120
 Leu Gln Arg Val Ala Ile Leu Val Pro His Arg Asn Arg Glu Lys
 125 130 135
 His Leu Met Tyr Leu Leu Glu His Leu His Pro Phe Leu Gln Arg
 140 145 150
 Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile His Gln Ala Glu Gly
 155 160 165
 Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val Gly Tyr Leu Glu

P2730P1sequencelisting.txt

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Asp Leu Val Pro	Glu Asn Asp Phe Asn	Leu Tyr Lys Cys Glu	Glu	
200	205		210	
His Pro Lys His	Leu Val Val Gly Arg	Asn Ser Thr Gly Tyr	Arg	
215	220		225	
Leu Arg Tyr Ser	Gly Tyr Phe Gly Gly	Val Thr Ala Leu Ser	Arg	
230	235		240	
Glu Gln Phe Phe	Lys Val Asn Gly Phe	Ser Asn Asn Tyr Trp	Gly	
245	250		255	
Trp Gly Gly Glu	Asp Asp Asp Leu Arg	Leu Arg Val Glu Leu	Gln	
260	265		270	
Arg Met Lys Ile	Ser Arg Pro Leu Pro	Glu Val Gly Lys Tyr	Thr	
275	280		285	
Met Val Phe His	Thr Arg Asp Lys Gly	Asn Glu Val Asn Ala	Glu	
290	295		300	
Arg Met Lys Leu	Leu His Gln Val Ser	Arg Val Trp Arg Thr	Asp	
305	310		315	
Gly Leu Ser Ser	Cys Ser Tyr Lys Leu	Val Ser Val Glu His	Asn	
320	325		330	
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<211> 25

<212> DNA

<213> Artificial Sequence

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<223> synthetic oligonucleotide probe

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<212> DNA

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<223> synthetic oligonucleotide probe

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<210> 239

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 239

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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<212> PRT

<213> Homo sapiens

<400> 241

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Tyr	Glu	Leu	Asn	Leu	Thr	Thr	Asp	Ser	Pro	Ala	Thr	Thr	Gly	Ala
				35					40					45
Val	Val	Thr	Ile	Ser	Ala	Ser	Leu	Val	Ala	Lys	Asp	Asn	Gly	Ser
				50					55					60
Leu	Ala	Leu	Pro	Ala	Asp	Ala	His	Leu	Tyr	Arg	Phe	His	Trp	Ile
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His	Thr	Pro	Leu	Val	Leu	Thr	Gly	Lys	Met	Glu	Lys	Gly	Leu	Ser
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Ser	Thr	Ile	Arg	Val	Val	Gly	His	Val	Pro	Gly	Glu	Phe	Pro	Val
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P2730P1sequencelisting.txt

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Ala Arg Gly Phe	Val 125	Val Leu Pro Ile	Thr 130	Glu Phe Leu Val	Gly 135
Asp Leu Val Val	Thr 140	Gln Asn Thr Ser	Leu 145	Pro Trp Pro Ser	Ser 150
Tyr Leu Thr Lys	Thr 155	Val Leu Lys Val	Ser 160	Phe Leu Leu His	Asp 165
Pro Ser Asn Phe	Leu 170	Lys Thr Ala Leu	Phe 175	Leu Tyr Ser Trp	Asp 180
Phe Gly Asp Gly	Thr 185	Gln Met Val Thr	Glu 190	Asp Ser Val Val	Tyr 195
Tyr Asn Tyr Ser	Ile 200	Ile Gly Thr Phe	Thr 205	Val Lys Leu Lys	Val 210
Val Ala Glu Trp	Glu 215	Glu Val Glu Pro	Asp 220	Ala Thr Arg Ala	Val 225
Lys Gln Lys Thr	Gly 230	Asp Phe Ser Ala	Ser 235	Leu Lys Leu Gln	Glu 240
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Phe Gln Lys Met	Thr 260	Val Thr Leu Asn	Phe 265	Leu Gly Ser Pro	Pro 270
Leu Thr Val Cys	Trp 275	Arg Leu Lys Pro	Glu 280	Cys Leu Pro Leu	Glu 285
Glu Gly Glu Cys	His 290	Pro Val Ser Val	Ala 295	Ser Thr Ala Tyr	Asn 300
Leu Thr His Thr	Phe 305	Arg Asp Pro Gly	Asp 310	Tyr Cys Phe Ser	Ile 315
Arg Ala Glu Asn	Ile 320	Ile Ser Lys Thr	His 325	Gln Tyr His Lys	Ile 330
Gln Val Trp Pro	Ser 335	Arg Ile Gln Pro	Ala 340	Val Phe Ala Phe	Pro 345
Cys Ala Thr Leu	Ile 350	Thr Val Met Leu	Ala 355	Phe Ile Met Tyr	Met 360
Thr Leu Arg Asn	Ala 365	Thr Gln Gln Lys	Asp 370	Met Val Glu Asn	Pro 375
Glu Pro Pro Ser	Gly 380	Val Arg Cys Cys	Cys 385	Gln Met Cys Cys	Gly 390
Pro Phe Leu Leu	Glu 395	Thr Pro Ser Glu	Tyr 400	Leu Glu Ile Val	Arg 405
Glu Asn His Gly	Leu 410	Leu Pro Pro Leu	Tyr 415	Lys Ser Val Lys	Thr 420
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P2730P1sequencelisting.txt

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 <213> Homo sapiens

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 Page 203

P2730P1sequencelisting.txt

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Thr His Phe Pro Ile Cys Ile Phe Cys Cys Gly Cys Cys His Arg		
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 <211> 2359
 <212> DNA
 <213> Homo sapiens

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P2730P1sequencelisting.txt

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<211> 456

<212> PRT

<213> Homo sapiens

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Ile Val Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu
35 40 45

Tyr Met Lys Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg
50 55 60

Met Glu Arg Gly Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro
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P2730P1sequencelisting.txt

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Asn Thr Pro Glu	Phe 110	Glu Leu Ser Asp	Ile 115	Phe Tyr Phe Cys	Arg 120
Lys Gly Met Glu	Thr 125	Ile Met Asp Asp	Glu 130	Val Thr Lys Arg	Phe 135
Ser Ala Glu Glu	Leu 140	Glu Ser Trp Asn	Leu 145	Leu Ser Arg Thr	Asn 150
Tyr Asn Phe Gln	Tyr 155	Ile Ser Leu Arg	Leu 160	Thr Val Leu Trp	Gly 165
Leu Gly Val Leu	Ile 170	Arg Tyr Cys Phe	Leu 175	Leu Pro Leu Arg	Ile 180
Ala Leu Ala Phe	Thr 185	Gly Ile Ser Leu	Leu 190	Val Val Gly Thr	Thr 195
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Lys His Val His	Leu 215	Met Cys Tyr Arg	Ile 220	Cys Val Arg Ala	Leu 225
Thr Ala Ile Ile	Thr 230	Tyr His Asp Arg	Glu 235	Asn Arg Pro Arg	Asn 240
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Ile Leu Ala Ser	Asp 260	Gly Tyr Tyr Ala	Met 265	Val Gly Gln Val	His 270
Gly Gly Leu Met	Gly 275	Val Ile Gln Arg	Ala 280	Met Val Lys Ala	Cys 285
Pro His Val Trp	Phe 290	Glu Arg Ser Glu	Val 295	Lys Asp Arg His	Leu 300
Val Ala Lys Arg	Leu 305	Thr Glu His Val	Gln 310	Asp Lys Ser Lys	Leu 315
Pro Ile Leu Ile	Phe 320	Pro Glu Gly Thr	Cys 325	Ile Asn Asn Thr	Ser 330
Val Met Met Phe	Lys 335	Lys Gly Ser Phe	Glu 340	Ile Gly Ala Thr	Val 345
Tyr Pro Val Ala	Ile 350	Lys Tyr Asp Pro	Gln 355	Phe Gly Asp Ala	Phe 360
Trp Asn Ser Ser	Lys 365	Tyr Gly Met Val	Thr 370	Tyr Leu Leu Arg	Met 375
Met Thr Ser Trp	Ala 380	Ile Val Cys Ser	Val 385	Trp Tyr Leu Pro	Pro 390
Met Thr Arg Glu	Ala 395	Asp Glu Asp Ala	Val 400	Gln Phe Ala Asn	Arg 405
Val Lys Ser Ala	Ile Ala Arg Gln Gly	Gly Leu Val Asp Leu Leu			

P2730P1sequencelisting.txt

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425	430	435
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Lys Asp Arg Ser Arg Ser		
455		

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 <211> 1103
 <212> DNA
 <213> Homo sapiens

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P2730P1sequencelisting.txt

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          35          40          45
Glu Met Glu Glu Lys Ala Ala Pro Leu Leu Lys Glu Glu Met Ala
          50          55          60
His His Ala Leu Leu Arg Glu Ser Trp Glu Ala Ala Gln Glu Thr
          65          70          75
Trp Glu Asp Lys Arg Arg Gly Leu Thr Leu Pro Pro Gly Phe Lys
          80          85          90
Ala Gln Asn Gly Ile Ala Ile Met Val Tyr Thr Asn Ser Ser Asn
          95          100          105
Thr Leu Tyr Trp Glu Leu Asn Gln Ala Val Arg Thr Gly Gly Gly
          110          115          120
Ser Arg Glu Leu Tyr Met Arg His Phe Pro Phe Lys Ala Leu His
          125          130          135
Phe Tyr Leu Ile Arg Ala Leu Gln Leu Leu Arg Gly Ser Gly Gly
          140          145          150
Cys Ser Arg Gly Pro Gly Glu Val Val Phe Arg Gly Val Gly Ser
          155          160          165
Leu Arg Phe Glu Pro Lys Arg Leu Gly Asp Ser Val Arg Leu Gly
          170          175          180
Gln Phe Ala Ser Ser Ser Leu Asp Lys Ala Val Ala His Arg Phe
          185          190          195
Gly Glu Lys Arg Arg Gly Cys Val Ser Ala Pro Gly Val Gln Leu
          200          205          210
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<213> Artificial Sequence

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<223> synthetic oligonucleotide probe

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<211> 1076

<212> DNA

<213> Homo sapiens

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P2730P1sequencelisting.txt

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<211> 335

<212> PRT

<213> Homo sapiens

<400> 253

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Gly	Ser	Val	Gly	Gly	Ala	Val	Thr	Phe	Pro	Leu	Lys	Ser	Lys	Val
			35						40					45
Lys	Gln	Val	Asp	Ser	Ile	Val	Trp	Thr	Phe	Asn	Thr	Thr	Pro	Leu
			50						55					60
Val	Thr	Ile	Gln	Pro	Glu	Gly	Gly	Thr	Ile	Ile	Val	Thr	Gln	Asn
			65						70					75
Arg	Asn	Arg	Glu	Arg	Val	Asp	Phe	Pro	Asp	Gly	Gly	Tyr	Ser	Leu
			80						85					90
Lys	Leu	Ser	Lys	Leu	Lys	Lys	Asn	Asp	Ser	Gly	Ile	Tyr	Tyr	Val
			95						100					105

P2730P1sequencelisting.txt

Gly	Ile	Tyr	Ser	Ser	Ser	Leu	Gln	Gln	Pro	Ser	Thr	Gln	Glu	Tyr
				110					115					120
Val	Leu	His	Val	Tyr	Glu	His	Leu	Ser	Lys	Pro	Lys	Val	Thr	Met
				125					130					135
Gly	Leu	Gln	Ser	Asn	Lys	Asn	Gly	Thr	Cys	Val	Thr	Asn	Leu	Thr
				140					145					150
Cys	Cys	Met	Glu	His	Gly	Glu	Glu	Asp	Val	Ile	Tyr	Thr	Trp	Lys
				155					160					165
Ala	Leu	Gly	Gln	Ala	Ala	Asn	Glu	Ser	His	Asn	Gly	Ser	Ile	Leu
				170					175					180
Pro	Ile	Ser	Trp	Arg	Trp	Gly	Glu	Ser	Asp	Met	Thr	Phe	Ile	Cys
				185					190					195
Val	Ala	Arg	Asn	Pro	Val	Ser	Arg	Asn	Phe	Ser	Ser	Pro	Ile	Leu
				200					205					210
Ala	Arg	Lys	Leu	Cys	Glu	Gly	Ala	Ala	Asp	Asp	Pro	Asp	Ser	Ser
				215					220					225
Met	Val	Leu	Leu	Cys	Leu	Leu	Leu	Val	Pro	Leu	Leu	Leu	Ser	Leu
				230					235					240
Phe	Val	Leu	Gly	Leu	Phe	Leu	Trp	Phe	Leu	Lys	Arg	Glu	Arg	Gln
				245					250					255
Glu	Glu	Tyr	Ile	Glu	Glu	Lys	Lys	Arg	Val	Asp	Ile	Cys	Arg	Glu
				260					265					270
Thr	Pro	Asn	Ile	Cys	Pro	His	Ser	Gly	Glu	Asn	Thr	Glu	Tyr	Asp
				275					280					285
Thr	Ile	Pro	His	Thr	Asn	Arg	Thr	Ile	Leu	Lys	Glu	Asp	Pro	Ala
				290					295					300
Asn	Thr	Val	Tyr	Ser	Thr	Val	Glu	Ile	Pro	Lys	Lys	Met	Glu	Asn
				305					310					315
Pro	His	Ser	Leu	Leu	Thr	Met	Pro	Asp	Thr	Pro	Arg	Leu	Phe	Ala
				320					325					330
Tyr	Glu	Asn	Val	Ile										
				335										

<210> 254
 <211> 1053
 <212> DNA
 <213> Homo sapiens

<400> 254
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 gggtcagcag cctctggacc cgtgaaagag ctggtcgggt ccgttggtgg 100
 ggccgtgact ttccccctga agtccaaagt aaagcaagtt gactctattg 150
 tctggacctt caacacaacc cctcttgtca ccatacagcc agaagggggc 200
 actatcatag tgacccaaaa tcgtaatagg gagagagtag acttcccaga 250
 tggaggctac tcctgaagc tcagcaaact gaagaagaat gactcagggg 300
 tctactatgt ggggatatac agctcatcac tccagcagcc ctccaccag 350

P2730P1sequencelisting.txt

gagtacgtgc tgcattgtcta cgagcacctg tcaaagccta aagtcaccat 400
 gggctctgcag agcaataaga atggcacctg tgtgaccaat ctgacatgct 450
 gcatggaaca tggggaagag gatgtgattt atacctggaa ggccctgggg 500
 caagcagcca atgagtgcca taatgggtcc atcctcccca tctcctggag 550
 atggggagaa agtgatatga ccttcattctg cgttgccagg aaccctgtca 600
 gcagaaactt ctcaagcccc atccttgcca ggaagctctg tgaagggtgct 650
 gctgatgacc cagattcctc catggctcctc ctgtgtctcc tggttggtgcc 700
 cctcctgctc agtctctttg tactggggct atttctttgg tttctgaaga 750
 gagagagaca agaagagtac attgaagaga agaagagagt ggacatttgt 800
 cgggaaactc ctaacatatg ccccatctt ggagagaaca cagagtacga 850
 cacaatccct cacactaata gaacaatcct aaaggaagat ccagcaaata 900
 cggtttactc cactgtggaa ataccgaaaa agatggaaaa tccccactca 950
 ctgctcacga tgccagacac accaaggcta tttgcctatg agaatgttat 1000
 ctagacagca gtgcactccc ctaagtctct gctcaaaaaa aaaaaaaaaa 1050

aaa 1053

<210> 255
 <211> 860
 <212> DNA
 <213> Homo sapiens

<400> 255
 gaaagacgtg gtcctgacag acagacaatc ctattcccta ccaaaatgaa 50
 gatgctgctg ctgctgtggt tgggactgac cctagtctgt gtccatgcag 100
 aagaagctag ttctacggga aggaacttta atgtagaaaa gattaatggg 150
 gaatggcata ctattatcct ggccctctgac aaaagagaaa agatagaaga 200
 acatggcaac tttagacttt ttctggagca aatccatgtc ttggagaatt 250
 ccttagttct taaagtccat actgtaagag atgaagagtg ctccgaatta 300
 tctatggttg ctgacaaaac agaaaaggct ggtgaatatt ctgtgacgta 350
 tgatggattc aatacattta ctatacctaa gacagactat gataactttc 400
 ttatggctca cctcattaac gaaaaggatg gggaaacctt ccagctgatg 450
 gggctctatg gccgagaacc agatttgagt tcagacatca aggaaagggt 500
 tgcacaacta tgtgaggagc atggaatcct tagagaaaat atcattgacc 550
 tatccaatgc caatcgtgc ctccaggccc gagaatgaag aatggcctga 600
 gcctccagtg ttgagtggac acttctcacc aggactccac catcatccct 650
 tcctatccat acagcatccc cagtataaat tctgtgatct gcattccatc 700
 ctgtctcact gagaagtcca attccagtct atcaacatgt tacctaggat 750
 acctcatcaa gaatcaaaga cttctttaa tttctctttg atacaccctt 800

P2730P1sequencelisting.txt

gacaattttt catgaaatta ttcctcttcc tgttcaataa atgattaccc 850
ttgcacttaa 860

<210> 256
<211> 180
<212> PRT
<213> Homo sapiens

<400> 256
Met Lys Met Leu Leu Leu Leu Cys Leu Gly Leu Thr Leu Val Cys
1 5 10 15
Val His Ala Glu Glu Ala Ser Ser Thr Gly Arg Asn Phe Asn Val
20 25 30
Glu Lys Ile Asn Gly Glu Trp His Thr Ile Ile Leu Ala Ser Asp
35 40 45
Lys Arg Glu Lys Ile Glu Glu His Gly Asn Phe Arg Leu Phe Leu
50 55 60
Glu Gln Ile His Val Leu Glu Asn Ser Leu Val Leu Lys Val His
65 70 75
Thr Val Arg Asp Glu Glu Cys Ser Glu Leu Ser Met Val Ala Asp
80 85 90
Lys Thr Glu Lys Ala Gly Glu Tyr Ser Val Thr Tyr Asp Gly Phe
95 100 105
Asn Thr Phe Thr Ile Pro Lys Thr Asp Tyr Asp Asn Phe Leu Met
110 115 120
Ala His Leu Ile Asn Glu Lys Asp Gly Glu Thr Phe Gln Leu Met
125 130 135
Gly Leu Tyr Gly Arg Glu Pro Asp Leu Ser Ser Asp Ile Lys Glu
140 145 150
Arg Phe Ala Gln Leu Cys Glu Glu His Gly Ile Leu Arg Glu Asn
155 160 165
Ile Ile Asp Leu Ser Asn Ala Asn Arg Cys Leu Gln Ala Arg Glu
170 175 180

<210> 257
<211> 766
<212> DNA
<213> Homo sapiens

<400> 257
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gacatcctgc aatggattca gcctgctggt tctactgctg ttaggagtag 100
ttctcaatgc gatacctcta attgtcagct tagttgagga agaccaattt 150
tctcaaaacc ccatctcttg ctttgagtgg tgggtcccag gaattatagg 200
agcaggctctg atggccattc cagcaacaac aatgtccttg acagcaagaa 250
aaagagcgtg ctgcaacaac agaactggaa tgtttctttc atcatttttc 300
agtgtgatca cagtcattgg tgctctgtat tgcattgctga tatccatcca 350
ggctctctta aaaggctctc tcatgtgtaa ttctccaagc aacagtaatg 400

P2730P1sequencelisting.txt

ccaattgtga attttcattg aaaaacatca gtgacattca tccagaatcc 450
 ttcaacttgc agtgggtttt caatgactct tgtgcacctc ctactgggtt 500
 caataaacc accagtaacg acaccatggc gagtggctgg agagcatcta 550
 gtttccactt cgattctgaa gaaaacaaac ataggcttat ccactttcta 600
 gtatttttag gtctattgct tgttggaatt ctggaggtcc tgtttgggct 650
 cagtcagata gtcacgggtt tccttggctg tctgtgtgga gtctctaagc 700
 gaagaagtca aattgtgtag tttaatggga ataaaatgta agtatcagta 750
 gtttgaaaaa aaaaaa 766

<210> 258

<211> 229

<212> PRT

<213> Homo sapiens

<400> 258

Met	Thr	Cys	Cys	Glu	Gly	Trp	Thr	Ser	Cys	Asn	Gly	Phe	Ser	Leu	1	5	10	15
Leu	Val	Leu	Leu	Leu	Leu	Gly	Val	Val	Leu	Asn	Ala	Ile	Pro	Leu	20	25	30	35
Ile	Val	Ser	Leu	Val	Glu	Glu	Asp	Gln	Phe	Ser	Gln	Asn	Pro	Ile	40	45	50	55
Ser	Cys	Phe	Glu	Trp	Trp	Phe	Pro	Gly	Ile	Ile	Gly	Ala	Gly	Leu	60	65	70	75
Met	Ala	Ile	Pro	Ala	Thr	Thr	Met	Ser	Leu	Thr	Ala	Arg	Lys	Arg	80	85	90	95
Ala	Cys	Cys	Asn	Asn	Arg	Thr	Gly	Met	Phe	Leu	Ser	Ser	Phe	Phe	100	105	110	115
Ser	Val	Ile	Thr	Val	Ile	Gly	Ala	Leu	Tyr	Cys	Met	Leu	Ile	Ser	120	125	130	135
Ile	Gln	Ala	Leu	Leu	Lys	Gly	Pro	Leu	Met	Cys	Asn	Ser	Pro	Ser	140	145	150	155
Asn	Ser	Asn	Ala	Asn	Cys	Glu	Phe	Ser	Leu	Lys	Asn	Ile	Ser	Asp	160	165	170	175
Ile	His	Pro	Glu	Ser	Phe	Asn	Leu	Gln	Trp	Phe	Phe	Asn	Asp	Ser	180	185	190	195
Cys	Ala	Pro	Pro	Thr	Gly	Phe	Asn	Lys	Pro	Thr	Ser	Asn	Asp	Thr	200	205	210	215
Met	Ala	Ser	Gly	Trp	Arg	Ala	Ser	Ser	Phe	His	Phe	Asp	Ser	Glu	220	225	230	235
Glu	Asn	Lys	His	Arg	Leu	Ile	His	Phe	Ser	Val	Phe	Leu	Gly	Leu	240	245	250	255
Leu	Leu	Val	Gly	Ile	Leu	Glu	Val	Leu	Phe	Gly	Leu	Ser	Gln	Ile	260	265	270	275
Val	Ile	Gly	Phe	Leu	Gly	Cys	Leu	Cys	Gly	Val	Ser	Lys	Arg	Arg	280	285	290	295

Ser Gln Ile Val

<210> 259
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 259
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 caccatgagg ctgtcagtgt gtctcctgat ggtctcgctg gccctttgct 100
 gctaccaggc ccatgtctctt gtctgcccag ctggttgcttc tgagatcaca 150
 gtctttcttat tcttaagtga cgctgcggta aacctccaag ttgccaaact 200
 taatccacct ccagaagctc ttgcagccaa gttggaagtg aagcactgca 250
 ccgatcagat atctttttaag aaacgactct cattgaaaaa gtcctgggtg 300
 aaatagtga aaaatgtggt gtgtgacatg taaaaatgct caacctgggt 350
 tccaaagtct ttcaacgaca ccctgatctt cactaaaaat tgtaaagggt 400
 tcaacacggt gctttaataa atcacttgcc ctgc 434

<210> 260
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 260
 Met Arg Leu Ser Val Cys Leu Leu Met Val Ser Leu Ala Leu Cys
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 Cys Tyr Gln Ala His Ala Leu Val Cys Pro Ala Val Ala Ser Glu
 20 25 30
 Ile Thr Val Phe Leu Phe Leu Ser Asp Ala Ala Val Asn Leu Gln
 35 40 45
 Val Ala Lys Leu Asn Pro Pro Pro Glu Ala Leu Ala Ala Lys Leu
 50 55 60
 Glu Val Lys His Cys Thr Asp Gln Ile Ser Phe Lys Lys Arg Leu
 65 70 75
 Ser Leu Lys Lys Ser Trp Trp Lys
 80

<210> 261
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 261
 atccgttctc tgcgctgccca gctcaggtga gccctcgcca aggtgacctc 50
 gcaggacact ggtgaaggag cagtgaggaa cctgcagagt cacacagttg 100
 ctgaccaatt gagctgtgag cctggagcag atccgtgggc tgcagacccc 150
 cgccccagtg cctctcccc tgcagccctg cccctcgaac tgtgacatgg 200
 agagagtgac cctggccctt ctctactgg caggcctgac tgccttgga 250
 gccaatgacc catttgccaa taaagacgat cccttctact atgactggaa 300

P2730P1sequencelisting.txt

aaacctgcag ctgagcggac tgatctgcgg agggctcctg gccattgctg 350
 ggatcgcggc agttctgagt ggcaaatgca aatacaagag cagccagaag 400
 cagcacagtc ctgtacctga gaaggccatc ccactcatca ctccaggctc 450
 tgccactact tgctgagcac aggactggcc tccagggatg gcctgaagcc 500
 taacactggc ccccagcacc tcctcccctg ggaggcctta tcctcaagga 550
 aggacttctc tccaagggca ggctgttagg cccctttctg atcaggaggc 600
 ttctttatga attaaactcg ccccaccacc ccctca 636

<210> 262
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 262
 Met Glu Arg Val Thr Leu Ala Leu Leu Leu Leu Ala Gly Leu Thr 15
 1 5 10
 Ala Leu Glu Ala Asn Asp Pro Phe Ala Asn Lys Asp Asp Pro Phe 30
 20 25 30
 Tyr Tyr Asp Trp Lys Asn Leu Gln Leu Ser Gly Leu Ile Cys Gly 45
 35 40 45
 Gly Leu Leu Ala Ile Ala Gly Ile Ala Ala Val Leu Ser Gly Lys 60
 50 55 60
 Cys Lys Tyr Lys Ser Ser Gln Lys Gln His Ser Pro Val Pro Glu 75
 65 70 75
 Lys Ala Ile Pro Leu Ile Thr Pro Gly Ser Ala Thr Thr Cys 85
 80 85

<210> 263
 <211> 1676
 <212> DNA
 <213> Homo sapiens

<400> 263
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 ctgagcctgc cctggctggg cctcagaccg gtggcaatgt ccccatggct 100
 actcctgctg ctgggtgtgg gctcctggct actcgccgc atcctggctt 150
 ggacctatgc cttctataac aactgccgcc ggctccagtg tttccacag 200
 cccccaaaac ggaactgggt ttggggtcac ctgggcctga tctctctac 250
 agaggagggc ttgaaggact cgaccagat gtcggccacc tattcccagg 300
 gctttacggt atggctgggt cccatcatcc cttcatcgt tttatgccac 350
 cctgacacca tccggtctat caccaatgcc tcagctgcca ttgcaccaa 400
 ggataatctc ttcacaggt tcctgaagcc ctggctggga gaagggatac 450
 tgctgagtgg cggtgacaag tggagccgcc accgtcggat gctgacgcc 500
 gccttccatt tcaacatcct gaagtcctat ataacgatct tcaacaagag 550
 tgcaaacatc atgcttgaca agtggcagca cctggcctca gagggcagca 600

P2730P1sequencelisting.txt

gtcgtctgga catgtttgag cacatcagcc tcatgacctt ggacagtcta 650
cagaaatgca tcttcagctt tgacagccat tgtcaggaga ggcccagtga 700
atatattgcc accatcttgg agctcagtgc ccttgtagag aaaagaagcc 750
agcatatcct ccagcacatg gactttctgt attacctctc ccatgacggg 800
cggcgcttcc acagggcctg ccgcctggtg catgacttca cagacgctgt 850
catccgggag cggcgtcgca ccctccccac tcagggtatt gatgattttt 900
tcaaagacaa agccaagtcc aagactttgg atttcattga tgtgcttctg 950
ctgagcaagg atgaagatgg gaaggcattg tcagatgagg atataagagc 1000
agaggctgac accttcatgt ttggaggcca tgacaccacg gccagtggcc 1050
tctcctgggt cctgtacaac cttgcgaggc acccagaata ccaggagcgc 1100
tgccgacagg aggtgcaaga gcttctgaag gaccgcatc ctaaagagat 1150
tgaatgggac gacctggccc agctgccctt cctgaccatg tgcgtgaagg 1200
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caggacattg ttctcccaga tggccgagtc atccccaaag gcattacctg 1300
cctcatcgat attatagggg tccatcacia cccaactgtg tggccggatc 1350
ctgaggtcta cgacccttc cgctttgacc cagagaacag caaggggagg 1400
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ttgatcatgc gcgccgaggg cgggctttgg ctgcgggtgg agcccctgaa 1600
tgtaggcttg cagtgacttt ctgacccatc cacctgtttt tttgcagatt 1650
gtcatgaata aaacggtgct gtcaaa 1676

<210> 264

<211> 524

<212> PRT

<213> Homo sapiens

<400> 264

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Met	Ser	Pro	Trp	Leu	Leu	Leu	Leu	Val	Val	Gly	Ser	Trp	Leu	
				20				25					30	
Leu	Ala	Arg	Ile	Leu	Ala	Trp	Thr	Tyr	Ala	Phe	Tyr	Asn	Asn	Cys
				35					40					45
Arg	Arg	Leu	Gln	Cys	Phe	Pro	Gln	Pro	Pro	Lys	Arg	Asn	Trp	Phe
				50					55					60
Trp	Gly	His	Leu	Gly	Leu	Ile	Thr	Pro	Thr	Glu	Glu	Gly	Leu	Lys
				65					70					75
Asp	Ser	Thr	Gln	Met	Ser	Ala	Thr	Tyr	Ser	Gln	Gly	Phe	Thr	Val
				80					85					90

P2730P1sequencelisting.txt

Trp	Leu	Gly	Pro	Ile	Ile	Pro	Phe	Ile	Val	Leu	Cys	His	Pro	Asp
				95					100					105
Thr	Ile	Arg	Ser	Ile	Thr	Asn	Ala	Ser	Ala	Ala	Ile	Ala	Pro	Lys
				110					115					120
Asp	Asn	Leu	Phe	Ile	Arg	Phe	Leu	Lys	Pro	Trp	Leu	Gly	Glu	Gly
				125					130					135
Ile	Leu	Leu	Ser	Gly	Gly	Asp	Lys	Trp	Ser	Arg	His	Arg	Arg	Met
				140					145					150
Leu	Thr	Pro	Ala	Phe	His	Phe	Asn	Ile	Leu	Lys	Ser	Tyr	Ile	Thr
				155					160					165
Ile	Phe	Asn	Lys	Ser	Ala	Asn	Ile	Met	Leu	Asp	Lys	Trp	Gln	His
				170					175					180
Leu	Ala	Ser	Glu	Gly	Ser	Ser	Arg	Leu	Asp	Met	Phe	Glu	His	Ile
				185					190					195
Ser	Leu	Met	Thr	Leu	Asp	Ser	Leu	Gln	Lys	Cys	Ile	Phe	Ser	Phe
				200					205					210
Asp	Ser	His	Cys	Gln	Glu	Arg	Pro	Ser	Glu	Tyr	Ile	Ala	Thr	Ile
				215					220					225
Leu	Glu	Leu	Ser	Ala	Leu	Val	Glu	Lys	Arg	Ser	Gln	His	Ile	Leu
				230					235					240
Gln	His	Met	Asp	Phe	Leu	Tyr	Tyr	Leu	Ser	His	Asp	Gly	Arg	Arg
				245					250					255
Phe	His	Arg	Ala	Cys	Arg	Leu	Val	His	Asp	Phe	Thr	Asp	Ala	Val
				260					265					270
Ile	Arg	Glu	Arg	Arg	Arg	Thr	Leu	Pro	Thr	Gln	Gly	Ile	Asp	Asp
				275					280					285
Phe	Phe	Lys	Asp	Lys	Ala	Lys	Ser	Lys	Thr	Leu	Asp	Phe	Ile	Asp
				290					295					300
Val	Leu	Leu	Leu	Ser	Lys	Asp	Glu	Asp	Gly	Lys	Ala	Leu	Ser	Asp
				305					310					315
Glu	Asp	Ile	Arg	Ala	Glu	Ala	Asp	Thr	Phe	Met	Phe	Gly	Gly	His
				320					325					330
Asp	Thr	Thr	Ala	Ser	Gly	Leu	Ser	Trp	Val	Leu	Tyr	Asn	Leu	Ala
				335					340					345
Arg	His	Pro	Glu	Tyr	Gln	Glu	Arg	Cys	Arg	Gln	Glu	Val	Gln	Glu
				350					355					360
Leu	Leu	Lys	Asp	Arg	Asp	Pro	Lys	Glu	Ile	Glu	Trp	Asp	Asp	Leu
				365					370					375
Ala	Gln	Leu	Pro	Phe	Leu	Thr	Met	Cys	Val	Lys	Glu	Ser	Leu	Arg
				380					385					390
Leu	His	Pro	Pro	Ala	Pro	Phe	Ile	Ser	Arg	Cys	Cys	Thr	Gln	Asp
				395					400					405
Ile	Val	Leu	Pro	Asp	Gly	Arg	Val	Ile	Pro	Lys	Gly	Ile	Thr	Cys
				410					415					420
Leu	Ile	Asp	Ile	Ile	Gly	Val	His	His	Asn	Pro	Thr	Val	Trp	Pro

P2730P1sequencelisting.txt

425		430	435
Asp Pro Glu Val	Tyr Asp Pro Phe Arg Phe Asp Pro Glu Asn Ser		
440	445	450	
Lys Gly Arg Ser	Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly Pro		
455	460	465	
Arg Asn Cys Ile	Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val		
470	475	480	
Val Leu Ala Leu	Met Leu Leu His Phe Arg Phe Leu Pro Asp His		
485	490	495	
Thr Glu Pro Arg	Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly		
500	505	510	
Gly Leu Trp Leu	Arg Val Glu Pro Leu Asn Val Gly Leu Gln		
515	520		

<210> 265
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 265
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 ctggcctcct gctgtttgct tttcacagga ttcttaaadc ctctcttadc 100
 tcttcctctc cttgactcca gggaaatadc ctttcaactc tcagcacctc 150
 atgaagacgc gcgcttaact ccggaggagc tagaaagagc ttcccttcta 200
 cagatattgc cagagatgct ggggtgcagaa agaggggata ttctcaggaa 250
 agcagactca agtaccaca tttttaaccc aagaggaaat ttgagaaagt 300
 ttcaggattt ctctggacaa gatacctaaca ttttactgag tcattctttg 350
 gccagaatct ggaaaccata caagaaacgt gagactcctg attgcttctg 400
 gaaataactgt gtctgaagtg aaataagcat ctgttagtca gctcagaaac 450
 acccatctta gaatatgaaa aataacacaa tgcttgattt gaaaacagtg 500
 tggagaaaaa ctaggcaaac tacaccctgt tcattgttac ctggaaaata 550
 aatcctctat gttttgcaca aaaaaaaaaa aaaa 584

<210> 266
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 266
 Met Tyr Lys Leu Ala Ser Cys Cys Leu Leu Phe Thr Gly Phe Leu
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 Asn Pro Leu Leu Ser Leu Pro Leu Leu Asp Ser Arg Glu Ile Ser
 20 25 30
 Phe Gln Leu Ser Ala Pro His Glu Asp Ala Arg Leu Thr Pro Glu
 35 40 45
 Glu Leu Glu Arg Ala Ser Leu Leu Gln Ile Leu Pro Glu Met Leu
 50 55 60

P2730P1sequencelisting.txt

Gly Ala Glu Arg Gly Asp Ile Leu Arg Lys Ala Asp Ser Ser Thr
65 70 75
Asn Ile Phe Asn Pro Arg Gly Asn Leu Arg Lys Phe Gln Asp Phe
80 85 90
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Lys Tyr Cys Val

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<213> Homo sapiens

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<210> 268
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<212> PRT
<213> Homo sapiens

<400> 268
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Ala Lys Leu Gln Pro Arg Ala Leu Ala Gly Trp Leu Arg Pro Glu
50 55 60
Asp Gly Gly Gln Ala Glu Gly Ala Glu Asp Glu Leu Glu Val Arg
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65

70

75

Phe Asn Ala Pro Phe Asp Val Gly Ile Lys Leu Ser Gly Val Gln
80 85 90

Tyr Gln Gln His Ser Gln Ala Leu Gly Lys Phe Leu Gln Asp Ile
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<211> 1332

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 Ile Tyr Leu Ser Met Ser Pro Thr Leu Ser Pro Arg Ser Pro Gln
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 Gly Trp Val Val Arg Ala Ala His Leu Thr Pro Leu Leu Glu Tyr
 65 70 75
 Val Pro Asn Pro Glu Pro Pro Thr Pro Gly Ala Arg Val Phe Val
 80 85 90
 Pro Arg Val Arg Met Cys Ser Gly Ser Ala Ser Pro Arg Ser Glu
 95 100 105
 Ile Met Asp Lys Lys Gly Lys Ser Gln Glu Glu Ile Lys Ser Met
 110 115 120
 Arg Thr Gln Gln Ala Gln Gln Glu Ala Glu Leu Thr Pro Arg Pro
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 <211> 1484
 <212> DNA
 <213> Homo sapiens

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Thr	Ser	Leu	Leu	Ser	Asn	Tyr	Trp	Phe	Val	Gly	Thr	Gln	Lys	Val
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Thr Ser Ile His Gln Leu Pro Pro Ala Thr Asn Arg Leu Ala Thr	185	195
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Cys Phe Leu Cys Pro Val Arg Ser Pro Gly Asp Gly Gly Pro His	215	225
Asp Val Phe Thr Ser Leu Pro Ser Asp Cys Gln Leu Gly Ser Arg	230	240
Arg Leu Glu Thr Thr Cys Leu Glu Leu Trp Leu Gly Leu Leu His	245	255
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 <212> PRT
 <213> Homo sapiens

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 <213> Homo sapiens

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 Pro Ile Pro Tyr Cys Ile Ala Arg Arg Leu Val Asp Asp Thr Asp
 50 55 60
 Ala Met Ser Asn Ala Cys Lys Glu Leu Ala Ile Phe Leu Thr Thr
 65 70 75
 Gly Ile Val Val Ser Ala Phe Gly Leu Pro Ile Val Phe Ala Arg
 80 85 90
 Ala His Leu Ile Glu Trp Gly Ala Cys Ala Leu Val Leu Thr Gly
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 Asn Thr Val Ile Phe Ala Thr Ile Leu Gly Phe Phe Leu Val Phe
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 cttcaagaag gcagacattt ggtatgattt agcatcaaca acacatttat 3650

P2730P1sequencelisting.txt

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<210> 278

<211> 522

<212> PRT

<213> Homo sapiens

<400> 278

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Arg	Pro	Ser	Gly	Val	Val	Leu	Cys	Leu	Leu	Gly	Ala	Cys	Phe	Gln	20	25	30	
Met	Leu	Pro	Ala	Ala	Pro	Ser	Gly	Cys	Pro	Gln	Leu	Cys	Arg	Cys	35	40	45	
Glu	Gly	Arg	Leu	Leu	Tyr	Cys	Glu	Ala	Leu	Asn	Leu	Thr	Glu	Ala	50	55	60	
Pro	His	Asn	Leu	Ser	Gly	Leu	Leu	Gly	Leu	Ser	Leu	Arg	Tyr	Asn	65	70	75	
Ser	Leu	Ser	Glu	Leu	Arg	Ala	Gly	Gln	Phe	Thr	Gly	Leu	Met	Gln	80	85	90	
Leu	Thr	Trp	Leu	Tyr	Leu	Asp	His	Asn	His	Ile	Cys	Ser	Val	Gln	95	100	105	
Gly	Asp	Ala	Phe	Gln	Lys	Leu	Arg	Arg	Val	Lys	Glu	Leu	Thr	Leu	110	115	120	
Ser	Ser	Asn	Gln	Ile	Thr	Gln	Leu	Pro	Asn	Thr	Thr	Phe	Arg	Pro	125	130	135	
Met	Pro	Asn	Leu	Arg	Ser	Val	Asp	Leu	Ser	Tyr	Asn	Lys	Leu	Gln	140	145	150	
Ala	Leu	Ala	Pro	Asp	Leu	Phe	His	Gly	Leu	Arg	Lys	Leu	Thr	Thr	155	160	165	
Leu	His	Met	Arg	Ala	Asn	Ala	Ile	Gln	Phe	Val	Pro	Val	Arg	Ile	170	175	180	
Phe	Gln	Asp	Cys	Arg	Ser	Leu	Lys	Phe	Leu	Asp	Ile	Gly	Tyr	Asn	185	190	195	
Gln	Leu	Lys	Ser	Leu	Ala	Arg	Asn	Ser	Phe	Ala	Gly	Leu	Phe	Lys	200	205	210	

P2730P1sequencelisting.txt

Leu Thr Glu Leu	His 215	Leu Glu His Asn	Asp 220	Leu Val Lys Val	Asn 225
Phe Ala His Phe	Pro 230	Arg Leu Ile Ser	Leu 235	His Ser Leu Cys	Leu 240
Arg Arg Asn Lys	Val 245	Ala Ile Val Val	Ser 250	Ser Leu Asp Trp	Val 255
Trp Asn Leu Glu	Lys 260	Met Asp Leu Ser	Gly 265	Asn Glu Ile Glu	Tyr 270
Met Glu Pro His	Val 275	Phe Glu Thr Val	Pro 280	His Leu Gln Ser	Leu 285
Gln Leu Asp Ser	Asn 290	Arg Leu Thr Tyr	Ile 295	Glu Pro Arg Ile	Leu 300
Asn Ser Trp Lys	Ser 305	Leu Thr Ser Ile	Thr 310	Leu Ala Gly Asn	Leu 315
Trp Asp Cys Gly	Arg 320	Asn Val Cys Ala	Leu 325	Ala Ser Trp Leu	Ser 330
Asn Phe Gln Gly	Arg 335	Tyr Asp Gly Asn	Leu 340	Gln Cys Ala Ser	Pro 345
Glu Tyr Ala Gln	Gly 350	Glu Asp Val Leu	Asp 355	Ala Val Tyr Ala	Phe 360
His Leu Cys Glu	Asp 365	Gly Ala Glu Pro	Thr 370	Ser Gly His Leu	Leu 375
Ser Ala Val Thr	Asn 380	Arg Ser Asp Leu	Gly 385	Pro Pro Ala Ser	Ser 390
Ala Thr Thr Leu	Ala 395	Asp Gly Gly Glu	Gly 400	Gln His Asp Gly	Thr 405
Phe Glu Pro Ala	Thr 410	Val Ala Leu Pro	Gly 415	Gly Glu His Ala	Glu 420
Asn Ala Val Gln	Ile 425	His Lys Val Val	Thr 430	Gly Thr Met Ala	Leu 435
Ile Phe Ser Phe	Leu 440	Ile Val Val Leu	Val 445	Leu Tyr Val Ser	Trp 450
Lys Cys Phe Pro	Ala 455	Ser Leu Arg Gln	Leu 460	Arg Gln Cys Phe	Val 465
Thr Gln Arg Arg	Lys 470	Gln Lys Gln Lys	Gln 475	Thr Met His Gln	Met 480
Ala Ala Met Ser	Ala 485	Gln Glu Tyr Tyr	Val 490	Asp Tyr Lys Pro	Asn 495
His Ile Glu Gly	Ala 500	Leu Val Ile Ile	Asn 505	Glu Tyr Gly Ser	Cys 510
Thr Cys His Gln	Gln 515	Pro Ala Arg Glu	Cys 520	Glu Val	

<210> 279

<211> 46

<212> DNA

<213> Artificial Sequence

P2730P1sequencelisting.txt

<220>

<223> Synthetic oligonucleotide probe

<400> 279

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<210> 280

<211> 709

<212> DNA

<213> Homo sapiens

<400> 280

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 ccggcggcgc cgttgagttc ccggcggaca agatggtgtc agtcctggtg 200
 caagaaggtc acgccgtctc agacatgctc ctgccgctgg atggggaact 250
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 ccagcccct 709

<210> 281

<211> 229

<212> PRT

<213> Homo sapiens

<400> 281

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 20 25 30
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 35 40 45
 Gly Ala Val Glu Phe Pro Ala Asp Lys Met Val Ser Val Leu Val 60
 50 55 60
 Gln Glu Gly His Ala Val Ser Asp Met Leu Leu Pro Leu Asp Gly 75
 65 70 75
 Glu Leu Val Leu Ala Ser Gly Ala Gly Phe Gly Val Ser Asp Val 90
 80 85 90
 Gly Ser His Leu Asp Cys Gly Ala Gly Glu Pro Ala Val Phe Arg
 Page 231

P2730P1sequencelisting.txt

95	100	105
Asp Ser Asp Arg Phe Ser Trp His Asp Pro His Leu Trp Arg Ser	110 115 120	
Gly Asp Glu Ala Pro Gly Leu Phe Phe Val Asp Ala Glu Arg Val	125 130 135	
Pro Cys Arg His Asp Asp Val Phe Phe Pro Pro Ser Ala Ser Phe	140 145 150	
Arg Val Gly Leu Gly Pro Gly Ala Ser Pro Val Arg Val Arg Ser	155 160 165	
Ile Ser Ala Leu Gly Arg Thr Phe Thr Arg Asp Glu Asp Leu Ala	170 175 180	
Val Phe Leu Ala Ser Arg Ala Gly Arg Leu Arg Phe His Gly Pro	185 190 195	
Gly Ala Leu Ser Val Gly Pro Glu Asp Cys Ala Asp Pro Ser Gly	200 205 210	
Cys Val Cys Gly Asn Ala Glu Ala Gln Pro Trp Ile Cys Ala Ala	215 220 225	
Leu Leu Gln Pro		

<210> 282
 <211> 644
 <212> DNA
 <213> Homo sapiens

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 tgtgttttgc acttaccctg tgttctgcct tttggtggca taacaaggga 150
 cttgcactta tcttctgcat tttgcagtct ttggcattga cgtggtacag 200
 cctttccttc ataccatttg caagggatgc tgtgaagaag tgttttgccg 250
 tgtgtcttgc ataattcatg gccagtttta tgaagctttg gaaggcacta 300
 tggacagaag ctggtggaca gttttgtaac tatcttcgaa acctctgtct 350
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 cagtagcaca ggatgagaag tgggttctgt atcttgtgga gtggaatctt 500
 cctcatgtac ctgtttcctc tctggatgtt gtccactga attcccatga 550
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<210> 283
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 283
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 Page 232

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Leu Ile Ala Thr	Ile Met Val	Leu Leu Cys Phe	Ala Leu Thr Leu
	20	25	30
Cys Ser Ala Phe	Trp Trp His Asn	Lys Gly Leu Ala	Leu Ile Phe
	35	40	45
Cys Ile Leu Gln	Ser Leu Ala Leu	Thr Trp Tyr Ser	Leu Ser Phe
	50	55	60
Ile Pro Phe Ala	Arg Asp Ala Val	Lys Lys Cys Phe	Ala Val Cys
	65	70	75
Leu Ala			

<210> 284
 <211> 2623
 <212> DNA
 <213> Homo sapiens

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 gagagaaaat tagggggaga aaggacagag agagcaacta ccatccatag 200
 ccagatagat tatcttacac tgaactgatc aagtactttg aaaatgactt 250
 cgaaatttat cttggtgtcc ttcatacttg ctgcactgag tctttcaacc 300
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 atattatgaa atatggtggt cacgtgaagc aagttactaa tgtttttatt 450
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P2730P1sequencelisting.txt

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<210> 285

<211> 477

<212> PRT

<213> Homo sapiens

<400> 285

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P2730P1sequencelisting.txt

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Leu Leu Val Ser	Phe Asp Gly Phe Arg Trp	Asp Tyr Leu Tyr	Lys 45
Val Pro Thr Pro	His Phe His Tyr Ile Met	Lys Tyr Gly Val	His 60
Val Lys Gln Val	Thr Asn Val Phe Ile Thr	Lys Thr Tyr Pro	Asn 75
His Tyr Thr Leu	Val Thr Gly Leu Phe Ala	Glu Asn His Gly	Ile 90
Val Ala Asn Asp	Met Phe Asp Pro Ile Arg	Asn Lys Ser Phe	Ser 105
Leu Asp His Met	Asn Ile Tyr Asp Ser Lys	Phe Trp Glu Glu	Ala 120
Thr Pro Ile Trp	Ile Thr Asn Gln Arg Ala	Gly His Thr Ser	Gly 135
Ala Ala Met Trp	Pro Gly Thr Asp Val Lys	Ile His Lys Arg	Phe 150
Pro Thr His Tyr	Met Pro Tyr Asn Glu Ser	Val Ser Phe Glu	Asp 165
Arg Val Ala Lys	Ile Val Glu Trp Phe Thr	Ser Lys Glu Pro	Ile 180
Asn Leu Gly Leu	Leu Tyr Trp Glu Asp Pro	Asp Asp Met Gly	His 195
His Leu Gly Pro	Asp Ser Pro Leu Met Gly	Pro Val Ile Ser	Asp 210
Ile Asp Lys Lys	Leu Gly Tyr Leu Ile Gln	Met Leu Lys Lys	Ala 225
Lys Leu Trp Asn	Thr Leu Asn Leu Ile Ile	Thr Ser Asp His	Gly 240
Met Thr Gln Cys	Ser Glu Glu Arg Leu Ile	Glu Leu Asp Gln	Tyr 255
Leu Asp Lys Asp	His Tyr Thr Leu Ile Asp	Gln Ser Pro Val	Ala 270
Ala Ile Leu Pro	Lys Glu Gly Lys Phe Asp	Glu Val Tyr Glu	Ala 285
Leu Thr His Ala	His Pro Asn Leu Thr Val	Tyr Lys Lys Glu	Asp 300
Val Pro Glu Arg	Trp His Tyr Lys Tyr Asn	Ser Arg Ile Gln	Pro 315
Ile Ile Ala Val	Ala Asp Glu Gly Trp His	Ile Leu Gln Asn	Lys 330
Ser Asp Asp Phe	Leu Leu Gly Asn His Gly	Tyr Asp Asn Ala	Leu 345

P2730P1sequencelisting.txt

Ala	Asp	Met	His	Pro	Ile	Phe	Leu	Ala	His	Gly	Pro	Ala	Phe	Arg
				350					355					360
Lys	Asn	Phe	Ser	Lys	Glu	Ala	Met	Asn	Ser	Thr	Asp	Leu	Tyr	Pro
				365					370					375
Leu	Leu	Cys	His	Leu	Leu	Asn	Ile	Thr	Ala	Met	Pro	His	Asn	Gly
				380					385					390
Ser	Phe	Trp	Asn	Val	Gln	Asp	Leu	Leu	Asn	Ser	Ala	Met	Pro	Arg
				395					400					405
Val	Val	Pro	Tyr	Thr	Gln	Ser	Thr	Ile	Leu	Leu	Pro	Gly	Ser	Val
				410					415					420
Lys	Pro	Ala	Glu	Tyr	Asp	Gln	Glu	Gly	Ser	Tyr	Pro	Tyr	Phe	Ile
				425					430					435
Gly	Val	Ser	Leu	Gly	Ser	Ile	Ile	Val	Ile	Val	Phe	Phe	Val	Ile
				440					445					450
Phe	Ile	Lys	His	Leu	Ile	His	Ser	Gln	Ile	Pro	Ala	Leu	Gln	Asp
				455					460					465
Met	His	Ala	Glu	Ile	Ala	Gln	Pro	Leu	Leu	Gln	Ala			
				470					475					

<210> 286
 <211> 1337
 <212> DNA
 <213> Homo sapiens

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 tgggattatc atctcagtta agacacgttc agaacggcaa ctcttaaggt 900

P2730P1sequencelisting.txt

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 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1337

<210> 287

<211> 255

<212> PRT

<213> Homo sapiens

<400> 287

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Val	Gly	Asp	Asp	Tyr	His	Ala	Trp	Asn	Ile	Asn	Tyr	Lys	Lys	Trp	35	40	45	
Glu	Asn	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Gln	Pro	Pro	Pro	Thr	50	55	60	
Pro	Val	Ser	Gly	Glu	Glu	Gly	Arg	Ala	Ala	Ala	Pro	Asp	Val	Ala	65	70	75	
Pro	Ala	Pro	Gly	Pro	Ala	Pro	Arg	Ala	Pro	Leu	Asp	Phe	Arg	Gly	80	85	90	
Met	Leu	Arg	Lys	Leu	Phe	Ser	Ser	His	Arg	Phe	Gln	Val	Ile	Ile	95	100	105	
Ile	Cys	Leu	Val	Val	Leu	Asp	Ala	Leu	Leu	Val	Leu	Ala	Glu	Leu	110	115	120	
Ile	Leu	Asp	Leu	Lys	Ile	Ile	Gln	Pro	Asp	Lys	Asn	Asn	Tyr	Ala	125	130	135	
Ala	Met	Val	Phe	His	Tyr	Met	Ser	Ile	Thr	Ile	Leu	Val	Phe	Phe	140	145	150	
Met	Met	Glu	Ile	Ile	Phe	Lys	Leu	Phe	Val	Phe	Arg	Leu	Ser	Ser	155	160	165	
Phe	Thr	Thr	Ser	Leu	Arg	Ser	Trp	Met	Pro	Val	Val	Val	Val	Val	170	175	180	
Ser	Phe	Ile	Leu	Asp	Ile	Val	Leu	Leu	Phe	Gln	Glu	His	Gln	Phe	185	190	195	
Glu	Ala	Leu	Gly	Leu	Leu	Ile	Leu	Leu	Arg	Leu	Trp	Arg	Val	Ala	200	205	210	
Arg	Ile	Ile	Asn	Gly	Ile	Ile	Ile	Ser	Val	Lys	Thr	Arg	Ser	Glu				

215

220

225

Arg	Gln	Leu	Leu	Arg	Leu	Lys	Gln	Met	Asn	Val	Gln	Leu	Ala	Ala
				230					235					240
Lys	Ile	Gln	His	Leu	Glu	Phe	Ser	Cys	Ser	Glu	Lys	Pro	Leu	Asp
				245					250					255

<210> 288

<211> 3334

<212> DNA

<213> Homo sapiens

<400> 288

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 <211> 469
 <212> PRT
 <213> Homo sapiens

<400> 289
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 35 40 45
 Ser Thr Tyr Arg Gln Trp Lys Gln Lys Ile Val Gln Ala Gly Asp
 50 55 60
 Lys Asp Leu Asp Gly Gln Leu Asp Phe Glu Glu Phe Val His Tyr
 65 70 75
 Leu Gln Asp His Glu Lys Lys Leu Arg Leu Val Phe Lys Ile Leu
 80 85 90
 Asp Lys Lys Asn Asp Gly Arg Ile Asp Ala Gln Glu Ile Met Gln
 95 100 105
 Ser Leu Arg Asp Leu Gly Val Lys Ile Ser Glu Gln Gln Ala Glu
 110 115 120
 Lys Ile Leu Lys Ser Met Asp Lys Asn Gly Thr Met Thr Ile Asp
 125 130 135
 Trp Asn Glu Trp Arg Asp Tyr His Leu Leu His Pro Val Glu Asn
 140 145 150
 Ile Pro Glu Ile Ile Leu Tyr Trp Lys His Ser Thr Ile Phe Asp
 155 160 165
 Val Gly Glu Asn Leu Thr Val Pro Asp Glu Phe Thr Val Glu Glu
 170 175 180
 Arg Gln Thr Gly Met Trp Trp Arg His Leu Val Ala Gly Gly Gly
 185 190 195
 Ala Gly Ala Val Ser Arg Thr Cys Thr Ala Pro Leu Asp Arg Leu
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 Lys Val Leu Met Gln Val His Ala Ser Arg Ser Asn Asn Met Gly
 215 220 225
 Ile Val Gly Gly Phe Thr Gln Met Ile Arg Glu Gly Gly Ala Arg
 230 235 240
 Ser Leu Trp Arg Gly Asn Gly Ile Asn Val Leu Lys Ile Ala Pro
 245 250 255

P2730P1sequencelisting.txt

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Ala Gly Ser Leu	Ala 290	Gly Ala Ile Ala	Gln 295	Ser Ser Ile Tyr	Pro 300
Met Glu Val Leu	Lys 305	Thr Arg Met Ala	Leu 310	Arg Lys Thr Gly	Gln 315
Tyr Ser Gly Met	Leu 320	Asp Cys Ala Arg	Arg 325	Ile Leu Ala Arg	Glu 330
Gly Val Ala Ala	Phe 335	Tyr Lys Gly Tyr	Val 340	Pro Asn Met Leu	Gly 345
Ile Ile Pro Tyr	Ala 350	Gly Ile Asp Leu	Ala 355	Val Tyr Glu Thr	Leu 360
Lys Asn Ala Trp	Leu 365	Gln His Tyr Ala	Val 370	Asn Ser Ala Asp	Pro 375
Gly Val Phe Val	Leu 380	Leu Ala Cys Gly	Thr 385	Met Ser Ser Thr	Cys 390
Gly Gln Leu Ala	Ser 395	Tyr Pro Leu Ala	Leu 400	Val Arg Thr Arg	Met 405
Gln Ala Gln Ala	Ser 410	Ile Glu Gly Ala	Pro 415	Glu Val Thr Met	Ser 420
Ser Leu Phe Lys	His 425	Ile Leu Arg Thr	Glu 430	Gly Ala Phe Gly	Leu 435
Tyr Arg Gly Leu	Ala 440	Pro Asn Phe Met	Lys 445	Val Ile Pro Ala	Val 450
Ser Ile Ser Tyr	Val 455	Val Tyr Glu Asn	Leu 460	Lys Ile Thr Leu	Gly 465
val Gln Ser Arg					

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 <213> Homo sapiens

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 cagaggccgg acagcagtgt ttgctgatca agtgatagtt ggcaatgcct 400

P2730P1sequencelisting.txt

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<210> 291

<211> 282

<212> PRT

<213> Homo sapiens

<400> 291

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Ile Ser Gly Arg His Ser Ile Thr Val Thr Thr Val Ala Ser Ala
35 40 45

Gly Asn Ile Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro

P2730P1sequencelisting.txt

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Val Leu Gly Leu Val	His Glu Phe Lys Glu Gly Lys Asp Glu Leu	
80	85	90
Ser Glu Gln Asp Glu	Met Phe Arg Gly Arg Thr Ala Val Phe Ala	
95	100	105
Asp Gln Val Ile Val	Gly Asn Ala Ser Leu Arg Leu Lys Asn Val	
110	115	120
Gln Leu Thr Asp Ala	Gly Thr Tyr Lys Cys Tyr Ile Ile Thr Ser	
125	130	135
Lys Gly Lys Gly Asn	Ala Asn Leu Glu Tyr Lys Thr Gly Ala Phe	
140	145	150
Ser Met Pro Glu Val	Asn Val Asp Tyr Asn Ala Ser Ser Glu Thr	
155	160	165
Leu Arg Cys Glu Ala	Pro Arg Trp Phe Pro Gln Pro Thr Val Val	
170	175	180
Trp Ala Ser Gln Val	Asp Gln Gly Ala Asn Phe Ser Glu Val Ser	
185	190	195
Asn Thr Ser Phe Glu	Leu Asn Ser Glu Asn Val Thr Met Lys Val	
200	205	210
Val Ser Val Leu Tyr	Asn Val Thr Ile Asn Asn Thr Tyr Ser Cys	
215	220	225
Met Ile Glu Asn Asp	Ile Ala Lys Ala Thr Gly Asp Ile Lys Val	
230	235	240
Thr Glu Ser Glu Ile	Lys Arg Arg Ser His Leu Gln Leu Leu Asn	
245	250	255
Ser Lys Ala Ser Leu	Cys Val Ser Ser Phe Phe Ala Ile Ser Trp	
260	265	270
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<210> 292
 <211> 1484
 <212> DNA
 <213> Homo sapiens

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 aaaacgtaag ttagactact gcgagtgcgg gacgcagctc tgtggatctc 400

P2730P1sequencelisting.txt

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<210> 293

<211> 180

<212> PRT

<213> Homo sapiens

<400> 293

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			20					25						30
Gly	Leu	Gln	Arg	Val	His	Glu	Pro	Thr	Trp	Ala	Gln	Gln	Leu	Leu
			35					40						45
Gln	Glu	Met	Lys	Thr	Leu	Phe	Leu	Asn	Thr	Glu	Tyr	Leu	Met	Pro
			50					55						60
Phe	Leu	Leu	Asn	Gln	Cys	Gly	Ser	Leu	Leu	Tyr	Tyr	Leu	Thr	Leu
			65					70						75
Ala	Ser	Thr	Asp	Leu	Thr	Leu	Ala	Val	Pro	Ile	Cys	Asn	Ser	Leu
			80					85						90

P2730P1sequencelisting.txt

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				110					115					120
Leu	Cys	Gly	Ser	Arg	His	Thr	Cys	Val	Ser	Ser	Phe	Pro	Glu	Pro
				125					130					135
Ile	Ser	Pro	Glu	Trp	Val	Arg	Thr	Arg	Pro	Phe	Pro	Ile	Leu	Pro
				140					145					150
Phe	Pro	Leu	Gln	Leu	Phe	Cys	Phe	Leu	Val	Ala	Ile	Arg	Val	Pro
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Phe	Pro	Trp	Thr	Val	Trp	Arg	Lys	Thr	Glu	Ala	Gly	Val	Trp	Asp
				170					175					180

<210> 294
 <211> 1164
 <212> DNA
 <213> Homo sapiens

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P2730P1sequencelisting.txt

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 <213> Homo sapiens

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 35 40 45
 Thr Ser Cys Ile Ser Ser Ser Ala Ser Ser Ser Leu Glu Thr Pro
 50 55 60
 Val Arg Leu Tyr Gln Asn Met Phe Cys Ser Ala Glu Asn Cys Ser
 65 70 75
 Glu Glu Thr His Ile Thr Ala Phe Thr Val His Val Ser Ala Glu
 80 85 90
 Glu His Phe His Phe Val Ser Gln Cys Cys Gln Gly Lys Glu Cys
 95 100 105
 Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn Val Ser
 110 115 120
 Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr Ser
 125 130 135
 Cys Arg Gly Lys Pro Trp Lys Cys Tyr Glu Glu Glu Gln Cys Val
 140 145 150
 Phe Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu
 155 160 165
 Val Leu Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe
 170 175 180
 Leu Ser Gly Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys
 185 190 195
 Phe Glu Cys Ala Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro
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<210> 296
 <211> 1245
 <212> DNA
 <213> Homo sapiens

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P2730P1sequence1isting.txt

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<210> 297

<211> 341

<212> PRT

<213> Homo sapiens

<400> 297

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 20          25          30
Thr Glu Met Gln Arg Val Ser Leu Arg Phe Gly Gly Pro Met Thr
 35          40          45
Arg Ser Tyr Arg Ser Thr Ala Arg Thr Gly Leu Pro Arg Lys Thr
 50          55          60
Arg Ile Ile Leu Glu Asp Glu Asn Asp Ala Met Ala Asp Ala Asp
 65          70          75

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P2730P1sequencelisting.txt

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Arg Leu Ala Gly Pro Ala Ala Ala Glu Leu Leu Ala Ala Thr Val
80 85 90
Ser Thr Gly Phe Ser Arg Ser Ser Ala Ile Asn Glu Glu Asp Gly
95 100 105
Ser Ser Glu Glu Gly Val Val Ile Asn Ala Gly Lys Asp Ser Thr
110 115 120
Ser Arg Glu Leu Pro Ser Ala Thr Pro Asn Thr Ala Gly Ser Ser
125 130 135
Ser Thr Arg Phe Ile Ala Asn Ser Gln Glu Pro Glu Ile Arg Leu
140 145 150
Thr Ser Ser Leu Pro Arg Ser Pro Gly Arg Ser Thr Glu Asp Leu
155 160 165
Pro Gly Ser Gln Ala Thr Leu Ser Gln Trp Ser Thr Pro Gly Ser
170 175 180
Thr Pro Ser Arg Trp Pro Ser Pro Ser Pro Thr Ala Met Pro Ser
185 190 195
Pro Glu Asp Leu Arg Leu Val Leu Met Pro Trp Gly Pro Trp His
200 205 210
Cys His Cys Lys Ser Gly Thr Met Ser Arg Ser Arg Ser Gly Lys
215 220 225
Leu His Gly Leu Ser Gly Arg Leu Arg Val Gly Ala Leu Ser Gln
230 235 240
Leu Arg Thr Glu His Lys Pro Cys Thr Tyr Gln Gln Cys Pro Cys
245 250 255
Asn Arg Leu Arg Glu Glu Cys Pro Leu Asp Thr Ser Leu Cys Thr
260 265 270
Asp Thr Asn Cys Ala Ser Gln Ser Thr Thr Ser Thr Arg Thr Thr
275 280 285
Thr Thr Pro Phe Pro Thr Ile His Leu Arg Ser Ser Pro Ser Leu
290 295 300
Pro Pro Ala Ser Pro Cys Pro Ala Leu Ala Phe Trp Lys Arg Val
305 310 315
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<210> 298

<211> 2692

<212> DNA

<213> Homo sapiens

<400> 298

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cgaccgtgag ccggtgtacc gcgactgcgt actgcagtgc gaagagcaga 150

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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<210> 299

<211> 320

<212> PRT

<213> Homo sapiens

<400> 299

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Asp	Cys	Val	Leu	Gln	Cys	Glu	Glu	Gln	Asn	Cys	Ser	Gly	Gly	Ala	35	40	45	
Leu	Asn	His	Phe	Arg	Ser	Arg	Gln	Pro	Ile	Tyr	Met	Ser	Leu	Ala	50	55	60	
Gly	Trp	Thr	Cys	Arg	Asp	Asp	Cys	Lys	Tyr	Glu	Cys	Met	Trp	Val	65	70	75	
Thr	Val	Gly	Leu	Tyr	Leu	Gln	Glu	Gly	His	Lys	Val	Pro	Gln	Phe	80	85	90	
His	Gly	Lys	Trp	Pro	Phe	Ser	Arg	Phe	Leu	Phe	Phe	Gln	Glu	Pro	95	100	105	
Ala	Ser	Ala	Val	Ala	Ser	Phe	Leu	Asn	Gly	Leu	Ala	Ser	Leu	Val	110	115	120	
Met	Leu	Cys	Arg	Tyr	Arg	Thr	Phe	Val	Pro	Ala	Ser	Ser	Pro	Met	125	130	135	
Tyr	His	Thr	Cys	Val	Ala	Phe	Ala	Trp	Val	Ser	Leu	Asn	Ala	Trp	140	145	150	

P2730P1sequencelisting.txt

Phe Trp Ser Thr	Val	Phe His Thr Arg Asp Thr Asp Leu Thr	Glu
	155		165
Lys Met Asp Tyr	Phe Cys Ala Ser Thr	Val Ile Leu His Ser	Ile
	170		180
Tyr Leu Cys Cys	Val Arg Thr Val Gly	Leu Gln His Pro Ala	Val
	185		195
Val Ser Ala Phe	Arg Ala Leu Leu Leu	Leu Met Leu Thr Val	His
	200		210
Val Ser Tyr Leu	Ser Leu Ile Arg Phe	Asp Tyr Gly Tyr Asn	Leu
	215		225
Val Ala Asn Val	Ala Ile Gly Leu Val	Asn Val Val Trp Trp	Leu
	230		240
Ala Trp Cys Leu	Trp Asn Gln Arg Arg	Leu Pro His Val Arg	Lys
	245		255
Cys Val Val Val	Val Leu Leu Leu Gln	Gly Leu Ser Leu Leu	Glu
	260		270
Leu Leu Asp Phe	Pro Pro Leu Phe Trp	Val Leu Asp Ala His	Ala
	275		285
Ile Trp His Ile	Ser Thr Ile Pro Val	His Val Leu Phe Phe	Ser
	290		300
Phe Leu Glu Asp	Asp Ser Leu Tyr Leu	Leu Lys Glu Ser Glu	Asp
	305		315
Lys Phe Lys Leu	Asp		
	320		

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 <212> DNA
 <213> Homo sapiens

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 aatttgaaag gcaaaaggct ggatatcaac accaacacct acacatctca 450
 ggatctcaag agtgcactgg caaaattcaa ggagggggca gagatggaga 500
 gttcaaagga agacaaggca aggcaggctg aggtaaagcg gctcttccgc 550
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 gactgacatg cagatcatgg tacggctgat caacaagttc aatagttcca 650

P2730P1sequencelisting.txt

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ccagcgtggg tgggcttctc aggcaggagg acatcttggc agtgctggct 1550
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<210> 301
<211> 461
<212> PRT
<213> Homo sapiens

<400> 301
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20 25 30
Ser His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys
35 40 45
Ser Ser Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu
50 55 60
Glu Leu Asp Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu
65 70 75
Trp Gln Ala Leu Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His
80 85 90
Val Arg Leu Asn Leu Gln Thr Gly Glu Arg Glu Ala Lys Leu Gln
95 100 105

P2730P1sequencelisting.txt

Tyr	Glu	Asp	Lys	Phe	Arg	Asn	Asn	Leu	Lys	Gly	Lys	Arg	Leu	Asp	110	115	120
Ile	Asn	Thr	Asn	Thr	Tyr	Thr	Ser	Gln	Asp	Leu	Lys	Ser	Ala	Leu	125	130	135
Ala	Lys	Phe	Lys	Glu	Gly	Ala	Glu	Met	Glu	Ser	Ser	Lys	Glu	Asp	140	145	150
Lys	Ala	Arg	Gln	Ala	Glu	Val	Lys	Arg	Leu	Phe	Arg	Pro	Ile	Glu	155	160	165
Glu	Leu	Lys	Lys	Asp	Phe	Asp	Glu	Leu	Asn	Val	Val	Ile	Glu	Thr	170	175	180
Asp	Met	Gln	Ile	Met	Val	Arg	Leu	Ile	Asn	Lys	Phe	Asn	Ser	Ser	185	190	195
Ser	Ser	Ser	Leu	Glu	Glu	Lys	Ile	Ala	Ala	Leu	Phe	Asp	Leu	Glu	200	205	210
Tyr	Tyr	Val	His	Gln	Met	Asp	Asn	Ala	Gln	Asp	Leu	Leu	Ser	Phe	215	220	225
Gly	Gly	Leu	Gln	Val	Val	Ile	Asn	Gly	Leu	Asn	Ser	Thr	Glu	Pro	230	235	240
Leu	Val	Lys	Glu	Tyr	Ala	Ala	Phe	Val	Leu	Gly	Ala	Ala	Phe	Ser	245	250	255
Ser	Asn	Pro	Lys	Val	Gln	Val	Glu	Ala	Ile	Glu	Gly	Gly	Ala	Leu	260	265	270
Gln	Lys	Leu	Leu	Val	Ile	Leu	Ala	Thr	Glu	Gln	Pro	Leu	Thr	Ala	275	280	285
Lys	Lys	Lys	Val	Leu	Phe	Ala	Leu	Cys	Ser	Leu	Leu	Arg	His	Phe	290	295	300
Pro	Tyr	Ala	Gln	Arg	Gln	Phe	Leu	Lys	Leu	Gly	Gly	Leu	Gln	Val	305	310	315
Leu	Arg	Thr	Leu	Val	Gln	Glu	Lys	Gly	Thr	Glu	Val	Leu	Ala	Val	320	325	330
Arg	Val	Val	Thr	Leu	Leu	Tyr	Asp	Leu	Val	Thr	Glu	Lys	Met	Phe	335	340	345
Ala	Glu	Glu	Glu	Ala	Glu	Leu	Thr	Gln	Glu	Met	Ser	Pro	Glu	Lys	350	355	360
Leu	Gln	Gln	Tyr	Arg	Gln	Val	His	Leu	Leu	Pro	Gly	Leu	Trp	Glu	365	370	375
Gln	Gly	Trp	Cys	Glu	Ile	Thr	Ala	His	Leu	Leu	Ala	Leu	Pro	Glu	380	385	390
His	Asp	Ala	Arg	Glu	Lys	Val	Leu	Gln	Thr	Leu	Gly	Val	Leu	Leu	395	400	405
Thr	Thr	Cys	Arg	Asp	Arg	Tyr	Arg	Gln	Asp	Pro	Gln	Leu	Gly	Arg	410	415	420
Thr	Leu	Ala	Ser	Leu	Gln	Ala	Glu	Tyr	Gln	Val	Leu	Ala	Ser	Leu	425	430	435
Glu	Leu	Gln	Asp	Gly	Glu	Asp	Glu	Gly	Tyr	Phe	Gln	Glu	Leu	Leu			

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<210> 302
<211> 2136
<212> DNA
<213> Homo sapiens

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P2730P1sequencelisting.txt

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ggtggagtgt cccatccttt taatcaaggt gattgtgatt ttgactaata 2050
aaaaagaatt tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2100
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 2136

<210> 303
<211> 247
<212> PRT
<213> Homo sapiens

<400> 303
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Pro Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu
20 25 30
Arg Val Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser
35 40 45
Leu Leu Leu Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr
50 55 60
Asp Arg Ser Asp Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly
65 70 75
Ala Ala Val Ser Val Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr
80 85 90
Tyr Lys Leu Leu Lys Lys Ala Asp Glu Gly Leu Ala Ser Leu Ser
95 100 105
Glu Asp Gly Arg Ser Pro Ile Ser Ile Arg Gln Met Ala Tyr Val
110 115 120
Ser Gly Leu Ser Phe Gly Ile Ile Ser Gly Val Phe Ser Val Ile
125 130 135
Asn Ile Leu Ala Asp Ala Leu Gly Pro Gly Val Val Gly Ile His
140 145 150
Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser Ala Phe Leu Thr Ala
155 160 165

P2730P1sequencelisting.txt

Ala	Ile	Ile	Leu	Leu	His	Thr	Phe	Trp	Gly	Val	Val	Phe	Phe	Asp
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Ala	Cys	Glu	Arg	Arg	Arg	Tyr	Trp	Ala	Leu	Gly	Leu	Val	Val	Gly
				185					190					195
Ser	His	Leu	Leu	Thr	Ser	Gly	Leu	Thr	Phe	Leu	Asn	Pro	Trp	Tyr
				200					205					210
Glu	Ala	Ser	Leu	Leu	Pro	Ile	Tyr	Ala	Val	Thr	Val	Ser	Met	Gly
				215					220					225
Leu	Trp	Ala	Phe	Ile	Thr	Ala	Gly	Gly	Ser	Leu	Arg	Ser	Ile	Gln
				230					235					240
Arg	Ser	Leu	Leu	Cys	Lys	Asp								
				245										

<210> 304
 <211> 240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 108, 123, 126, 154, 198, 206, 217
 <223> unknown base

<400> 304
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 ccttcggnat catcagtggg gtnttntctg ttatcaatat tttggctgat 150
 gcanttgggc caggtgtggg tgggatccat ggagactcac cctattantt 200
 cctganttca gccttnttga cagcagccat ttcctgctc 240

<210> 305
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 58, 94, 132, 186, 191, 220, 240, 248, 280, 311, 332
 <223> unknown base

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 ctgcttaaga aggcagatga ggggtagca tngctgagtg aggacggaag 150
 atcacccatt tccatccgcc agatggccta tgttnttggt ntttccttcg 200
 gtatcatcag tgggtgtttt tctgttatca atattttggn tgatgcantt 250
 gggccaggtg tggttgggat ccatggagan tcaccctatt aattcctgaa 300
 ttcagccttt ntgacagcag ccattatcct gntccatacc ttttggggag 350
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<210> 306
 <211> 655

<212> DNA
 <213> Homo sapiens

<220>
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 <222> 1, 22, 129, 133, 184
 <223> unknown base

<400> 306
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 <212> DNA
 <213> Homo sapiens

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 <222> 52, 89, 128
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P2730P1sequencelisting.txt

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<211> 1570

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 35 40 45
 Ser Asn Gln Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser
 50 55 60
 Asp Asp Ser Ser Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met
 65 70 75
 His Thr Gln Pro Trp Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln
 80 85 90
 Leu Tyr Cys Gly Ala Val Leu Val His Pro Gln Trp Leu Leu Thr
 95 100 105
 Ala Ala His Cys Arg Lys Lys Val Phe Arg Val Arg Leu Gly His
 110 115 120
 Tyr Ser Leu Ser Pro Val Tyr Glu Ser Gly Gln Gln Met Phe Gln
 125 130 135
 Gly Val Lys Ser Ile Pro His Pro Gly Tyr Ser His Pro Gly His
 140 145 150
 Ser Asn Asp Leu Met Leu Ile Lys Leu Asn Arg Arg Ile Arg Pro
 155 160 165
 Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser His Cys Pro Ser
 170 175 180
 Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr Thr Lys Ser
 185 190 195
 Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn Ile Ser
 200 205 210
 Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln Ile
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 Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 230 235 240
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu
 245 250 255
 Gln Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn
 260 265 270

Arg Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile
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<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

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<210> 311

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 311

ctggaacatc tgctgcccag attc 24

<210> 312

<211> 50

<212> DNA

<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

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<210> 313

<211> 3010

<212> DNA

<213> Homo sapiens

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gtgctcttcc tgaaccacgc ccacgcgccg ggcacggcgc cccacctgt 200

cgtcagcact ggggctgcca gcgccaacag cgccctggtc actgtggaaa 250

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 <211> 461
 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Ala Val Thr Gly Ala Val Leu Phe Leu Asn His Ala His Ala Pro
 50 55 60
 Gly Thr Ala Pro Pro Pro Val Val Ser Thr Gly Ala Ala Ser Ala
 65 70 75
 Asn Ser Ala Leu Val Thr Val Glu Arg Ala Asp Ser Ser His Leu
 80 85 90
 Ser Ile Leu Ile Asp Pro Arg Cys Pro Asp Leu Thr Asp Ser Phe
 95 100 105
 Ala Arg Leu Glu Ser Ala Gln Ala Ser Val Leu Gln Ala Leu Thr
 110 115 120
 Glu His Gln Ala Gln Pro Arg Leu Val Gly Asp Gln Glu Gln Glu
 125 130 135
 Leu Leu Asp Thr Leu Ala Asp Gln Leu Pro Arg Leu Leu Ala Arg
 140 145 150
 Ala Ser Glu Leu Gln Thr Glu Cys Met Gly Leu Arg Lys Gly His
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	170		175		180
Arg Leu Ile Gln	Leu Leu Ser Glu Ser	Gln Gly His Met Ala	His		
	185		190		195
Leu Val Asn Ser	Val Ser Asp Ile Leu	Asp Ala Leu Gln Arg	Asp		
	200		205		210
Arg Gly Leu Gly	Arg Pro Arg Asn Lys	Ala Asp Leu Gln Arg	Ala		
	215		220		225
Pro Ala Arg Gly	Thr Arg Pro Arg Gly	Cys Ala Thr Gly Ser	Arg		
	230		235		240
Pro Arg Asp Cys	Leu Asp Val Leu Leu	Ser Gly Gln Gln Asp	Asp		
	245		250		255
Gly Val Tyr Ser	Val Phe Pro Thr His	Tyr Pro Ala Gly Phe	Gln		
	260		265		270
Val Tyr Cys Asp	Met Arg Thr Asp Gly	Gly Gly Trp Thr Val	Phe		
	275		280		285
Gln Arg Arg Glu	Asp Gly Ser Val Asn	Phe Phe Arg Gly Trp	Asp		
	290		295		300
Ala Tyr Arg Asp	Gly Phe Gly Arg Leu	Thr Gly Glu His Trp	Leu		
	305		310		315
Gly Leu Lys Arg	Ile His Ala Leu Thr	Thr Gln Ala Ala Tyr	Glu		
	320		325		330
Leu His Val Asp	Leu Glu Asp Phe Glu	Asn Gly Thr Ala Tyr	Ala		
	335		340		345
Arg Tyr Gly Ser	Phe Gly Val Gly Leu	Phe Ser Val Asp Pro	Glu		
	350		355		360
Glu Asp Gly Tyr	Pro Leu Thr Val Ala	Asp Tyr Ser Gly Thr	Ala		
	365		370		375
Gly Asp Ser Leu	Leu Lys His Ser Gly	Met Arg Phe Thr Thr	Lys		
	380		385		390
Asp Arg Asp Ser	Asp His Ser Glu Asn	Asn Cys Ala Ala Phe	Tyr		
	395		400		405
Arg Gly Ala Trp	Trp Tyr Arg Asn Cys	His Thr Ser Asn Leu	Asn		
	410		415		420
Gly Gln Tyr Leu	Arg Gly Ala His Ala	Ser Tyr Ala Asp Gly	Val		
	425		430		435
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<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

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<210> 316
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 316
gaccagcagg gccaaaggaca agg 23

<210> 317
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
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<212> DNA
<213> Homo sapiens

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<211> 280

<212> PRT

<213> Homo sapiens

<400> 319

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Arg	His	Pro	Glu	Pro	Arg	Arg	Thr	Glu	His	Arg	Ala	Pro	Ser	Ser
				35					40					45
Thr	Trp	Arg	Pro	Val	Ala	Leu	Thr	Leu	Leu	Thr	Leu	Cys	Leu	Val
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Tyr	Gln	Leu	Ser	Asn	Thr	Gly	Gln	Asp	Thr	Ile	Ser	Gln	Met	Glu
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Glu	Arg	Leu	Gly	Asn	Thr	Ser	Gln	Glu	Leu	Gln	Ser	Leu	Gln	Val
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P2730P1sequencelisting.txt

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170		175	180
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185		190	195
Tyr Trp Thr Gly	Leu Leu Arg Pro Asp	Ser Gly Lys Ala Trp	Leu
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Trp Met Asp Gly	Thr Pro Phe Thr Ser	Glu Leu Phe His Ile	Ile
215		220	225
Ile Asp Val Thr	Ser Pro Arg Ser Arg	Asp Cys Val Ala Ile	Leu
230		235	240
Asn Gly Met Ile	Phe Ser Lys Asp Cys	Lys Glu Leu Lys Arg	Cys
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 <222> 59, 95, 149, 331, 364, 438, 446
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 <212> DNA

<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

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<223> Synthetic oligonucleotide probe

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<400> 324

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<212> DNA

<213> Homo sapiens

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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 35 40 45
 Gly Asp Ser Glu Leu Pro Pro Arg Gly Asn Thr Asn Ala Ala Arg
 50 55 60
 Arg Pro Asn Ser Val Gln Pro Gly Ala Glu Arg Glu Lys Pro Gly
 65 70 75
 Ala Gly Glu Gly Ala Gly Glu Asn Trp Glu Pro Arg Val Leu Pro
 80 85 90
 Tyr His Pro Ala Gln Pro Gly Gln Ala Ala Lys Lys Ala Val Arg
 95 100 105
 Thr Arg Tyr Ile Ser Thr Glu Leu Gly Ile Arg Gln Arg Leu Leu
 110 115 120
 Val Ala Val Leu Thr Ser Gln Thr Thr Leu Pro Thr Leu Gly Val
 125 130 135
 Ala Val Asn Arg Thr Leu Gly His Arg Leu Glu Arg Val Val Phe
 140 145 150
 Leu Thr Gly Ala Arg Gly Arg Arg Ala Pro Pro Gly Met Ala Val

P2730P1sequencelisting.txt

155	160	165
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185	190	195
Phe Leu Val Pro	Asp Thr Thr Tyr Thr Glu Ala His Gly Leu	Ala
200	205	210
Arg Leu Thr Gly	His Leu Ser Leu Ala Ser Ala Ala His Leu	Tyr
215	220	225
Leu Gly Arg Pro	Gln Asp Phe Ile Gly Gly Glu Pro Thr Pro	Gly
230	235	240
Arg Tyr Cys His	Gly Gly Phe Gly Val Leu Leu Ser Arg Met	Leu
245	250	255
Leu Gln Gln Leu	Arg Pro His Leu Glu Gly Cys Arg Asn Asp	Ile
260	265	270
Val Ser Ala Arg	Pro Asp Glu Trp Leu Gly Arg Cys Ile Leu	Asp
275	280	285
Ala Thr Gly Val	Gly Cys Thr Gly Asp His Glu Gly Val His	Tyr
290	295	300
Ser His Leu Glu	Leu Ser Pro Gly Glu Pro Val Gln Glu Gly	Asp
305	310	315
Pro His Phe Arg	Ser Ala Leu Thr Ala His Pro Val Arg Asp	Pro
320	325	330
Val His Met Tyr	Gln Leu His Lys Ala Phe Ala Arg Ala Glu	Leu
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Glu Arg Thr Tyr	Gln Glu Ile Gln Glu Leu Gln Trp Glu Ile	Gln
350	355	360
Asn Thr Ser His	Leu Ala Val Asp Gly Asp Arg Ala Ala Ala	Trp
365	370	375
Pro Val Gly Ile	Pro Ala Pro Ser Arg Pro Ala Ser Arg Phe	Glu
380	385	390
Val Leu Arg Trp	Asp Tyr Phe Thr Glu Gln His Ala Phe Ser	Cys
395	400	405
Ala Asp Gly Ser	Pro Arg Cys Pro Leu Arg Gly Ala Asp Arg	Ala
410	415	420
Asp Val Ala Asp	Val Leu Gly Thr Ala Leu Glu Glu Leu Asn	Arg
425	430	435
Arg Tyr His Pro	Ala Leu Arg Leu Gln Lys Gln Gln Leu Val	Asn
440	445	450
Gly Tyr Arg Arg	Phe Asp Pro Ala Arg Gly Met Glu Tyr Thr	Leu
455	460	465
Asp Leu Gln Leu	Glu Ala Leu Thr Pro Gln Gly Gly Arg Arg	Pro
470	475	480
Leu Thr Arg Arg	Val Gln Leu Leu Arg Pro Leu Ser Arg Val	Glu
485	490	495

P2730P1sequencelisting.txt

Ile	Leu	Pro	Val	Pro	Tyr	Val	Thr	Glu	Ala	Ser	Arg	Leu	Thr	Val
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				515					520					525
Leu	Glu	Ala	Phe	Ala	Thr	Ala	Ala	Leu	Glu	Pro	Gly	Asp	Ala	Ala
				530					535					540
Ala	Ala	Leu	Thr	Leu	Leu	Leu	Leu	Tyr	Glu	Pro	Arg	Gln	Ala	Gln
				545					550					555
Arg	Val	Ala	His	Ala	Asp	Val	Phe	Ala	Pro	Val	Lys	Ala	His	Val
				560					565					570
Ala	Glu	Leu	Glu	Arg	Arg	Phe	Pro	Gly	Ala	Arg	Val	Pro	Trp	Leu
				575					580					585
Ser	Val	Gln	Thr	Ala	Ala	Pro	Ser	Pro	Leu	Arg	Leu	Met	Asp	Leu
				590					595					600
Leu	Ser	Lys	Lys	His	Pro	Leu	Asp	Thr	Leu	Phe	Leu	Leu	Ala	Gly
				605					610					615
Pro	Asp	Thr	Val	Leu	Thr	Pro	Asp	Phe	Leu	Asn	Arg	Cys	Arg	Met
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His	Ala	Ile	Ser	Gly	Trp	Gln	Ala	Phe	Phe	Pro	Met	His	Phe	Gln
				635					640					645
Ala	Phe	His	Pro	Gly	Val	Ala	Pro	Pro	Gln	Gly	Pro	Gly	Pro	Pro
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Glu	Leu	Gly	Arg	Asp	Thr	Gly	Arg	Phe	Asp	Arg	Gln	Ala	Ala	Ser
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Glu	Ala	Cys	Phe	Tyr	Asn	Ser	Asp	Tyr	Val	Ala	Ala	Arg	Gly	Arg
				680					685					690
Leu	Ala	Ala	Ala	Ser	Glu	Gln	Glu	Glu	Glu	Leu	Leu	Glu	Ser	Leu
				695					700					705
Asp	Val	Tyr	Glu	Leu	Phe	Leu	His	Phe	Ser	Ser	Leu	His	Val	Leu
				710					715					720
Arg	Ala	Val	Glu	Pro	Ala	Leu	Leu	Gln	Arg	Tyr	Arg	Ala	Gln	Thr
				725					730					735
Cys	Ser	Ala	Arg	Leu	Ser	Glu	Asp	Leu	Tyr	His	Arg	Cys	Leu	Gln
				740					745					750
Ser	Val	Leu	Glu	Gly	Leu	Gly	Ser	Arg	Thr	Gln	Leu	Ala	Met	Leu
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<400> 329
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<220>
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P2730P1sequencelisting.txt

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<211> 153

<212> PRT

<213> Homo sapiens

<400> 334

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Ser	Ser	Phe	Ser	Arg	Thr	Val	Val	Ala	Pro	Ser	Ala	Val	Ala	Gly	35	40	45	
Lys	Arg	Pro	Pro	Glu	Pro	Thr	Thr	Pro	Trp	Gln	Glu	Asp	Pro	Glu	50	55	60	
Pro	Glu	Asp	Glu	Asn	Leu	Tyr	Glu	Lys	Asn	Pro	Asp	Ser	His	Gly	65	70	75	
Tyr	Asp	Lys	Asp	Pro	Val	Leu	Asp	Val	Trp	Asn	Met	Arg	Leu	Val	80	85	90	
Phe	Phe	Phe	Gly	Val	Ser	Ile	Ile	Leu	Val	Leu	Gly	Ser	Thr	Phe	95	100	105	
Val	Ala	Tyr	Leu	Pro	Asp	Tyr	Arg	Met	Lys	Glu	Trp	Ser	Arg	Arg	110	115	120	
Glu	Ala	Glu	Arg	Leu	Val	Lys	Tyr	Arg	Glu	Ala	Asn	Gly	Leu	Pro				

125

130

135

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Glu Asp Glu

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 <211> 442
 <212> DNA
 <213> Homo sapiens

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 <223> Synthetic oligonucleotide probe

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<220>
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<210> 338
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<400> 338
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<213> Homo sapiens

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P2730P1sequencelisting.txt

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<211> 574

<212> PRT

<213> Homo sapiens

<400> 340

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Val	Ile	Thr	Pro	Leu	Pro	Ser	Gly	Asp	Val	Ala	Ala	Thr	Phe	Gln	35	40	45	
Phe	Arg	Thr	Arg	Trp	Asp	Ser	Glu	Leu	Gln	Arg	Glu	Gly	Val	Ser	50	55	60	
His	Tyr	Arg	Leu	Phe	Pro	Lys	Ala	Leu	Gly	Gln	Leu	Ile	Ser	Lys	65	70	75	
Tyr	Ser	Leu	Arg	Glu	Leu	His	Leu	Ser	Phe	Thr	Gln	Gly	Phe	Trp	80	85	90	
Arg	Thr	Arg	Tyr	Trp	Gly	Pro	Pro	Phe	Leu	Gln	Ala	Pro	Ser	Gly	95	100	105	
Ala	Glu	Leu	Trp	Val	Trp	Phe	Gln	Asp	Thr	Val	Thr	Asp	Val	Asp	110	115	120	
Lys	Ser	Trp	Lys	Glu	Leu	Ser	Asn	Val	Leu	Ser	Gly	Ile	Phe	Cys	125	130	135	
Ala	Ser	Leu	Asn	Phe	Ile	Asp	Ser	Thr	Asn	Thr	Val	Thr	Pro	Thr	140	145	150	
Ala	Ser	Phe	Lys	Pro	Leu	Gly	Leu	Ala	Asn	Asp	Thr	Asp	His	Tyr	155	160	165	
Phe	Leu	Arg	Tyr	Ala	Val	Leu	Pro	Arg	Glu	Val	Val	Cys	Thr	Glu	170	175	180	
Asn	Leu	Thr	Pro	Trp	Lys	Lys	Leu	Leu	Pro	Cys	Ser	Ser	Lys	Ala	185	190	195	

P2730P1sequencelisting.txt

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Tyr	His	Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val	Cys	Arg	Asn	Ala	215	220	225
Arg	Cys	Thr	Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln	Thr	Leu	Ser	Val	230	235	240
Val	Phe	Asp	Ala	Phe	Ile	Thr	Gly	Gln	Gly	Lys	Lys	Asp	Trp	Ser	245	250	255
Leu	Phe	Arg	Met	Phe	Ser	Arg	Thr	Leu	Thr	Glu	Pro	Cys	Pro	Leu	260	265	270
Ala	Ser	Glu	Ser	Arg	Val	Tyr	Val	Asp	Ile	Thr	Thr	Tyr	Asn	Gln	275	280	285
Asp	Asn	Glu	Thr	Leu	Glu	Val	His	Pro	Pro	Pro	Thr	Thr	Thr	Tyr	290	295	300
Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg	Lys	Thr	Tyr	Ala	Ile	Tyr	Asp	305	310	315
Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn	Ser	Arg	Asn	Leu	Asn	Ile	320	325	330
Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn	Glu	Ala	Pro	Pro	Val	335	340	345
Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly	Tyr	Gly	Leu	Gln	350	355	360
Lys	Gly	Glu	Leu	Ser	Thr	Leu	Leu	Tyr	Asn	Thr	His	Pro	Tyr	Arg	365	370	375
Ala	Phe	Pro	Val	Leu	Leu	Leu	Asp	Thr	Val	Pro	Trp	Tyr	Leu	Arg	380	385	390
Leu	Tyr	Val	His	Thr	Leu	Thr	Ile	Thr	Ser	Lys	Gly	Lys	Glu	Asn	395	400	405
Lys	Pro	Ser	Tyr	Ile	His	Tyr	Gln	Pro	Ala	Gln	Asp	Arg	Leu	Gln	410	415	420
Pro	His	Leu	Leu	Glu	Met	Leu	Ile	Gln	Leu	Pro	Ala	Asn	Ser	Val	425	430	435
Thr	Lys	Val	Ser	Ile	Gln	Phe	Glu	Arg	Ala	Leu	Leu	Lys	Trp	Thr	440	445	450
Glu	Tyr	Thr	Pro	Asp	Pro	Asn	His	Gly	Phe	Tyr	Val	Ser	Pro	Ser	455	460	465
Val	Leu	Ser	Ala	Leu	Val	Pro	Ser	Met	Val	Ala	Ala	Lys	Pro	Val	470	475	480
Asp	Trp	Glu	Glu	Ser	Pro	Leu	Phe	Asn	Ser	Leu	Phe	Pro	Val	Ser	485	490	495
Asp	Gly	Ser	Asn	Tyr	Phe	Val	Arg	Leu	Tyr	Thr	Glu	Pro	Leu	Leu	500	505	510
Val	Asn	Leu	Pro	Thr	Pro	Asp	Phe	Ser	Met	Pro	Tyr	Asn	Val	Ile	515	520	525
Cys	Leu	Thr	Cys	Thr	Val	Val	Ala	Val	Cys	Tyr	Gly	Ser	Phe	Tyr	530	535	540

P2730P1sequencelisting.txt

Asn Leu Leu Thr Arg Thr Phe His Ile Glu Glu Pro Arg Thr Gly
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Gly Leu Ala Lys Arg Leu Ala Asn Leu Ile Arg Arg Ala Arg Gly
560 565 570

Val Pro Pro Leu

<210> 341

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 341

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<210> 342

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221> Artificial Sequence

<222> 1-24

<223> Synthetic oligonucleotide probe

<400> 342

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<210> 343

<211> 44

<212> DNA

<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

<400> 343

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<210> 344

<211> 762

<212> DNA

<213> Homo sapiens

<400> 344

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gtttgcccag ctgacaacgt acgctgcttc aagtccgatc ctccccagtg 150

tcacacagac caggactgtc tgggggaaag gaagtgttgt tacctgcact 200

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gtgtccaggc tcctcctcta ccaggtgtcc tcagaaatga tgctgggtcc 350

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gagacttga atatggaaga agcaataccc aacccaccca aagaaaacct 450

P2730P1sequencelisting.txt

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<210> 345
<211> 111
<212> PRT
<213> Homo sapiens

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Ala Gly Val Cys Pro Ala Asp Asn Val Arg Cys Phe Lys Ser Asp
35 40 45
Pro Pro Gln Cys His Thr Asp Gln Asp Cys Leu Gly Glu Arg Lys
50 55 60
Cys Cys Tyr Leu His Cys Gly Phe Lys Cys Val Ile Pro Val Lys
65 70 75
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Tyr Pro Glu Pro Gly Trp Glu Ala Lys Cys Pro Gly Ser Ser Ser
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Thr Arg Cys Pro Gln Lys
110

<210> 346
<211> 2528
<212> DNA
<213> Homo sapiens

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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<210> 347

<211> 600

<212> PRT

<213> Homo sapiens

<400> 347

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Leu	Pro	Ser	Phe	Ile	Lys	Glu	Pro	Gln	Thr	Lys	Pro	Ser	Arg	His
			35						40					45
Gln	Arg	Thr	Glu	Asn	Ile	Lys	Glu	Arg	Ser	Leu	Gln	Ser	Leu	Ala
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Lys	Pro	Lys	Ser	Gln	Ala	Pro	Thr	Arg	Ala	Arg	Arg	Thr	Thr	Ile
			65						70					75
Tyr	Ala	Glu	Pro	Ala	Pro	Glu	Asn	Asn	Ala	Leu	Asn	Thr	Gln	Thr
			80						85					90
Gln	Pro	Lys	Ala	His	Thr	Thr	Gly	Asp	Arg	Gly	Lys	Glu	Ala	Asn
			95						100					105
Gln	Ala	Pro	Pro	Glu	Glu	Gln	Asp	Lys	Val	Pro	His	Thr	Ala	Gln
			110						115					120
Arg	Ala	Ala	Trp	Lys	Ser	Pro	Glu	Lys	Glu	Lys	Thr	Met	Val	Asn
			125						130					135
Thr	Leu	Ser	Pro	Arg	Gly	Gln	Asp	Ala	Gly	Met	Ala	Ser	Gly	Arg
			140						145					150
Thr	Glu	Ala	Gln	Ser	Trp	Lys	Ser	Gln	Asp	Thr	Lys	Thr	Thr	Gln
			155						160					165
Gly	Asn	Gly	Gly	Gln	Thr	Arg	Lys	Leu	Thr	Ala	Ser	Arg	Thr	Val
			170						175					180
Ser	Glu	Lys	His	Gln	Gly	Lys	Ala	Ala	Thr	Thr	Ala	Lys	Thr	Leu
			185						190					195
Ile	Pro	Lys	Ser	Gln	His	Arg	Met	Leu	Ala	Pro	Thr	Gly	Ala	Val
			200						205					210
Ser	Thr	Arg	Thr	Arg	Gln	Lys	Gly	Val	Thr	Thr	Ala	Val	Ile	Pro
			215						220					225

P2730P1sequencelisting.txt

Pro Lys Glu Lys	Lys 230	Pro Gln Ala Thr	Pro 235	Pro Pro Pro Ala Pro	Phe 240
Gln Ser Pro Thr	Thr 245	Gln Arg Asn Gln	Arg 250	Leu Lys Ala Ala	Asn 255
Phe Lys Ser Glu	Pro 260	Arg Trp Asp Phe	Glu 265	Glu Lys Tyr Ser	Phe 270
Glu Ile Gly Gly	Leu 275	Gln Thr Thr Cys	Pro 280	Asp Ser Val Lys	Ile 285
Lys Ala Ser Lys	Ser 290	Leu Trp Leu Gln	Lys 295	Leu Phe Leu Pro	Asn 300
Leu Thr Leu Phe	Leu 305	Asp Ser Arg His	Phe 310	Asn Gln Ser Glu	Trp 315
Asp Arg Leu Glu	His 320	Phe Ala Pro Pro	Phe 325	Gly Phe Met Glu	Leu 330
Asn Tyr Ser Leu	Val 335	Gln Lys Val Val	Thr 340	Arg Phe Pro Pro	Val 345
Pro Gln Gln Gln	Leu 350	Leu Leu Ala Ser	Leu 355	Pro Ala Gly Ser	Leu 360
Arg Cys Ile Thr	Cys 365	Ala Val Val Gly	Asn 370	Gly Gly Ile Leu	Asn 375
Asn Ser His Met	Gly 380	Gln Glu Ile Asp	Ser 385	His Asp Tyr Val	Phe 390
Arg Leu Ser Gly	Ala 395	Leu Ile Lys Gly	Tyr 400	Glu Gln Asp Val	Gly 405
Thr Arg Thr Ser	Phe 410	Tyr Gly Phe Thr	Ala 415	Phe Ser Leu Thr	Gln 420
Ser Leu Leu Ile	Leu 425	Gly Asn Arg Gly	Phe 430	Lys Asn Val Pro	Leu 435
Gly Lys Asp Val	Arg 440	Tyr Leu His Phe	Leu 445	Glu Gly Thr Arg	Asp 450
Tyr Glu Trp Leu	Glu 455	Ala Leu Leu Met	Asn 460	Gln Thr Val Met	Ser 465
Lys Asn Leu Phe	Trp 470	Phe Arg His Arg	Pro 475	Gln Glu Ala Phe	Arg 480
Glu Ala Leu His	Met 485	Asp Arg Tyr Leu	Leu 490	Leu His Pro Asp	Phe 495
Leu Arg Tyr Met	Lys 500	Asn Arg Phe Leu	Arg 505	Ser Lys Thr Leu	Asp 510
Gly Ala His Trp	Arg 515	Ile Tyr Arg Pro	Thr 520	Thr Gly Ala Leu	Leu 525
Leu Leu Thr Ala	Leu 530	Gln Leu Cys Asp	Gln 535	Val Ser Ala Tyr	Gly 540
Phe Ile Thr Glu	Gly 545	His Glu Arg Phe	Ser 550	Asp His Tyr Tyr	Asp 555
Thr Ser Trp Lys	Arg 560	Leu Ile Phe Tyr	Ile 565	Asn His Asp Phe	Lys 570

P2730P1sequencelisting.txt

Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly Ile Ile
575 580 585

Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys Asn
590 595 600

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<211> 496
<212> DNA
<213> Homo sapiens

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<211> 91
<212> PRT
<213> Homo sapiens

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Leu Arg Met Lys Asp Lys Phe Leu Lys His Leu Thr Gly Pro Leu
35 40 45
Tyr Phe Ser Pro Lys Cys Ser Lys His Phe His Arg Leu Tyr His
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Asn Thr Arg Asp Cys Thr Ile Pro Ala Tyr Tyr Lys Arg Cys Ala
65 70 75
Arg Leu Leu Thr Arg Leu Ala Val Ser Pro Val Cys Met Glu Asp
80 85 90
Lys

<210> 350
<211> 1141
<212> DNA
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P2730P1sequencelisting.txt

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<211> 197

<212> PRT

<213> Homo sapiens

<400> 351

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          20          25          30
Cys Leu Trp Tyr Leu Asp Arg Asn Gly Ser Trp His Pro Gly Phe
          35          40          45
Asn Cys Glu Phe Phe Thr Phe Cys Cys Gly Thr Cys Tyr His Arg
          50          55          60
Tyr Cys Cys Arg Asp Leu Thr Leu Leu Ile Thr Glu Arg Gln Gln
          65          70          75
Lys His Cys Leu Ala Phe Ser Pro Lys Thr Ile Ala Gly Ile Ala
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P2730P1sequencelisting.txt

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Leu Gln Ser Pro Phe Glu Gly Gln Glu Ile Pro Met Thr Gly Ile
          125          130          135
Pro Val Gln Pro Val Tyr Pro Tyr Pro Gln Asp Pro Lys Ala Gly
          140          145          150
Pro Ala Pro Pro Gln Pro Gly Phe Met Tyr Pro Pro Ser Gly Pro
          155          160          165
Ala Pro Gln Tyr Pro Leu Tyr Pro Ala Gly Pro Pro Val Tyr Asn
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Gly Ala

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<210> 352
<211> 3226
<212> DNA
<213> Homo sapiens

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P2730P1sequencelisting.txt

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 gaatccaatg gaaacttgag cctgcctgtc gacgtgacct tggcagtggt 2400
 tgctgtgggg gccagagca cagaaggctg ggattttctt tatagtaaat 2450
 atcagttttc tttgtccagt actgagaaaa gccaaattga atttgccctc 2500
 tgcagaaccc aaaataagga aaagcttcaa tggctactag atgaaagctt 2550
 taaggagat aaaataaaaa ctcaggagtt tccacaaatt cttacactca 2600
 ttggcaggaa cccagtagga taccactgg cctggcaatt tctgaggaaa 2650

P2730P1sequencelisting.txt

aactggaaca aacttgtaga aaagtttgaa cttggctcat cttccatagc 2700
ccacatggta atgggtacaa caaatcaatt ctccacaaga acacggcttg 2750
aagaggtaaa aggattcttc agctctttga aagaaaatgg ttctcagctc 2800
cgttggtgcc aacagacaat tgaaaccatt gaagaaaaca tcggttgat 2850
ggataagaat tttgataaaa tcagagtgtg gctgcaaagt gaaaagcttg 2900
aacgtatgta aaaattcctc ccttgcccgg ttctgttat ctctaatac 2950
caacattttg ttgagtgtat tttcaacta gagatggctg ttttggtcc 3000
aactggagat acttttttcc cttcaactca ttttttgact atccctgtga 3050
aaagaatagc tgtagtgggt tcatgaatgg gctttttcat gaatgggcta 3100
tcgctaccat gtgtttgtt catcacaggt gttgccctgc aacgtaaacc 3150
caagtgttgg gttccctgcc acagaagaat aaagtacctt attcttctca 3200
aaaaaaaaa aaaaaaaaaa aaaaaa 3226

<210> 353
<211> 941
<212> PRT
<213> Homo sapiens

<400> 353
Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe
1 5 10 15
Leu Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser
20 25 30
Trp Cys Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr
35 40 45
Pro Phe Pro Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro
50 55 60
Val His Tyr Asp Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr
65 70 75
Phe Trp Gly Thr Thr Lys Val Glu Ile Thr Ala Ser Gln Pro Thr
80 85 90
Ser Thr Ile Ile Leu His Ser His His Leu Gln Ile Ser Arg Ala
95 100 105
Thr Leu Arg Lys Gly Ala Gly Glu Arg Leu Ser Glu Glu Pro Leu
110 115 120
Gln Val Leu Glu His Pro Pro Gln Glu Gln Ile Ala Leu Leu Ala
125 130 135
Pro Glu Pro Leu Leu Val Gly Leu Pro Tyr Thr Val Val Ile His
140 145 150
Tyr Ala Gly Asn Leu Ser Glu Thr Phe His Gly Phe Tyr Lys Ser
155 160 165
Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile Leu Ala Ser Thr
170 175 180
Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro Cys Phe Asp
185 190 195

P2730P1sequencelisting.txt

Glu	Pro	Ala	Phe	Lys	Ala	Ser	Phe	Ser	Ile	Lys	Ile	Arg	Arg	Glu	200	205	210
Pro	Arg	His	Leu	Ala	Ile	Ser	Asn	Met	Pro	Leu	Val	Lys	Ser	Val	215	220	225
Thr	Val	Ala	Glu	Gly	Leu	Ile	Glu	Asp	His	Phe	Asp	Val	Thr	Val	230	235	240
Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Ile	Ser	Asp	Phe	Glu	245	250	255
Ser	Val	Ser	Lys	Ile	Thr	Lys	Ser	Gly	Val	Lys	Val	Ser	Val	Tyr	260	265	270
Ala	Val	Pro	Asp	Lys	Ile	Asn	Gln	Ala	Asp	Tyr	Ala	Leu	Asp	Ala	275	280	285
Ala	Val	Thr	Leu	Leu	Glu	Phe	Tyr	Glu	Asp	Tyr	Phe	Ser	Ile	Pro	290	295	300
Tyr	Pro	Leu	Pro	Lys	Gln	Asp	Leu	Ala	Ala	Ile	Pro	Asp	Phe	Gln	305	310	315
Ser	Gly	Ala	Met	Glu	Asn	Trp	Gly	Leu	Thr	Thr	Tyr	Arg	Glu	Ser	320	325	330
Ala	Leu	Leu	Phe	Asp	Ala	Glu	Lys	Ser	Ser	Ala	Ser	Ser	Lys	Leu	335	340	345
Gly	Ile	Thr	Val	Thr	Val	Ala	His	Glu	Leu	Ala	His	Gln	Trp	Phe	350	355	360
Gly	Asn	Leu	Val	Thr	Met	Glu	Trp	Trp	Asn	Asp	Leu	Trp	Leu	Asn	365	370	375
Glu	Gly	Phe	Ala	Lys	Phe	Met	Glu	Phe	Val	Ser	Val	Ser	Val	Thr	380	385	390
His	Pro	Glu	Leu	Lys	Val	Gly	Asp	Tyr	Phe	Phe	Gly	Lys	Cys	Phe	395	400	405
Asp	Ala	Met	Glu	Val	Asp	Ala	Leu	Asn	Ser	Ser	His	Pro	Val	Ser	410	415	420
Thr	Pro	Val	Glu	Asn	Pro	Ala	Gln	Ile	Arg	Glu	Met	Phe	Asp	Asp	425	430	435
Val	Ser	Tyr	Asp	Lys	Gly	Ala	Cys	Ile	Leu	Asn	Met	Leu	Arg	Glu	440	445	450
Tyr	Leu	Ser	Ala	Asp	Ala	Phe	Lys	Ser	Gly	Ile	Val	Gln	Tyr	Leu	455	460	465
Gln	Lys	His	Ser	Tyr	Lys	Asn	Thr	Lys	Asn	Glu	Asp	Leu	Trp	Asp	470	475	480
Ser	Met	Ala	Ser	Ile	Cys	Pro	Thr	Asp	Gly	Val	Lys	Gly	Met	Asp	485	490	495
Gly	Phe	Cys	Ser	Arg	Ser	Gln	His	Ser	Ser	Ser	Ser	Ser	His	Trp	500	505	510
His	Gln	Glu	Gly	Val	Asp	Val	Lys	Thr	Met	Met	Asn	Thr	Trp	Thr	515	520	525
Leu	Gln	Arg	Gly	Phe	Pro	Leu	Ile	Thr	Ile	Thr	Val	Arg	Gly	Arg			

P2730P1sequencelisting.txt

530	535	540
Asn Val His Met Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly	545	555
Ala Pro Asp Thr Gly Tyr Leu Trp His Val Pro Leu Thr Phe Ile	560	570
Thr Ser Lys Ser Asn Met Val His Arg Phe Leu Leu Lys Thr Lys	575	585
Thr Asp Val Leu Ile Leu Pro Glu Glu Val Glu Trp Ile Lys Phe	590	600
Asn Val Gly Met Asn Gly Tyr Tyr Ile Val His Tyr Glu Asp Asp	605	615
Gly Trp Asp Ser Leu Thr Gly Leu Leu Lys Gly Thr His Thr Ala	620	630
Val Ser Ser Asn Asp Arg Ala Ser Leu Ile Asn Asn Ala Phe Gln	635	645
Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys Ala Leu Asp Leu	650	660
Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro Val Phe Gln	665	675
Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu Lys Arg	680	690
Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala Phe Leu Ile Arg	695	705
Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly	710	720
Ser Val Ser Glu Gln Met Leu Arg Ser Glu Leu Leu Leu Leu Ala	725	735
Cys Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr	740	750
Phe Arg Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val	755	765
Asp Val Thr Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu	770	780
Gly Trp Asp Phe Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser	785	795
Thr Glu Lys Ser Gln Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn	800	810
Lys Glu Lys Leu Gln Trp Leu Leu Asp Glu Ser Phe Lys Gly Asp	815	825
Lys Ile Lys Thr Gln Glu Phe Pro Gln Ile Leu Thr Leu Ile Gly	830	840
Arg Asn Pro Val Gly Tyr Pro Leu Ala Trp Gln Phe Leu Arg Lys	845	855
Asn Trp Asn Lys Leu Val Gln Lys Phe Glu Leu Gly Ser Ser Ser	860	870

P2730P1sequencelisting.txt

Ile	Ala	His	Met	Val	Met	Gly	Thr	Thr	Asn	Gln	Phe	Ser	Thr	Arg
				875					880					885
Thr	Arg	Leu	Glu	Glu	Val	Lys	Gly	Phe	Phe	Ser	Ser	Leu	Lys	Glu
				890					895					900
Asn	Gly	Ser	Gln	Leu	Arg	Cys	Val	Gln	Gln	Thr	Ile	Glu	Thr	Ile
				905					910					915
Glu	Glu	Asn	Ile	Gly	Trp	Met	Asp	Lys	Asn	Phe	Asp	Lys	Ile	Arg
				920					925					930
Val	Trp	Leu	Gln	Ser	Glu	Lys	Leu	Glu	Arg	Met				
				935					940					

<210> 354
 <211> 1587
 <212> DNA
 <213> Homo sapiens

<400> 354
 cagccacaga cgggtcatga gcgcggtatt actgctggcc ctcttggggt 50
 tcctctccc actgccagga gtgcaggcgc tgctctgcca gtttgggaca 100
 gttcagcatg tgtggaagggt gtccgaccta ccccggaat ggaccctaa 150
 gaacaccagc tgcgacagcg gcttgggggtg ccaggacacg ttgatgtca 200
 ttgagagcgg accccaagtg agcctggtgc tctccaaggg ctgcacggag 250
 gccaaggacc aggagccccg cgtcactgag caccggatgg gccccggcct 300
 ctccctgata tctacacct tcgtgtgccg ccaggaggac ttctgcaaca 350
 acctcgtaa ctccctcccg ctttggggcc cacagcccc agcagacca 400
 ggatccttga ggtgcccagt ctgcttgtct atggaaggct gtctggaggg 450
 gacaacagaa gagatctgcc ccaaggggac cacacactgt tatgatggcc 500
 tcctcaggct caggggagga ggcatttct ccaatctgag agtccaggga 550
 tgcattcccc agccagggtg caacctgctc aatgggacac aggaaattgg 600
 gcccggtgggt atgactgaga actgcaatag gaaagatttt ctgacctgtc 650
 atcgggggac caccattatg acacacggaa acttgggtca agaaccact 700
 gattggacca catcgaatac cgagatgtgc gaggtggggc aggtgtgtca 750
 ggagacgctg ctgctcatag atgtaggact cacatcaacc ctggtgggga 800
 caaaaggctg cagcactgtt ggggctcaaa attcccagaa gaccaccatc 850
 cactcagccc ctcttggggt gcttgtggcc tcctataccc acttctgctc 900
 ctcggaacctg tgcaatagtg ccagcagcag cagcgttctg ctgaactccc 950
 tccctcctca agctgcccct gtcccaggag accggcagtg tcctacctgt 1000
 gtgcagcccc ttggaacctg ttcaagtggc tcccccgaa tgacctgccc 1050
 caggggccc actcattgtt atgatgggta cattcatctc tcaggagggtg 1100
 ggctgtccac caaatgagc attcagggtt gcgtggcca acctccagc 1150
 ttcttgttga accacaccag acaaatcggg atcttctctg cgcgtgagaa 1200

P2730P1sequencelisting.txt

gcgtgatgtg cagcctcctg cctctcagca tgagggaggt ggggctgagg 1250
gcctggagtc tctcacttgg ggggtggggc tggcactggc cccagcgctg 1300
tggtggggag tggtttgccc ttctgctaa ctctattacc cccacgattc 1350
ttcaccgctg ctgaccaccc acactcaacc tccctctgac ctcataacct 1400
aatggccttg gacaccagat tctttcccat tctgtccatg aatcatcttc 1450
cccacacaca atcattcata tctactcacc taacagcaac actggggaga 1500
gcctggagca tccggacttg ccctatggga gaggggacgc tggaggagtg 1550
gctgcatgta tctgataata cagaccctgt cctttca 1587

<210> 355
<211> 437
<212> PRT
<213> Homo sapiens

<400> 355
Met Ser Ala Val Leu Leu Leu Ala Leu Leu Gly Phe Ile Leu Pro
1 5 10 15
Leu Pro Gly Val Gln Ala Leu Leu Cys Gln Phe Gly Thr Val Gln
20 25 30
His Val Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys
35 40 45
Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
50 55 60
Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
65 70 75
Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg
80 85 90
Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg
95 100 105
Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
110 115 120
Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val
125 130 135
Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile
140 145 150
Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu
155 160 165
Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val Gln Gly Cys Met
170 175 180
Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln Glu Ile Gly
185 190 195
Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
200 205 210
Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln
215 220 225

P2730P1sequencelisting.txt

Glu	Pro	Thr	Asp	Trp	Thr	Thr	Ser	Asn	Thr	Glu	Met	Cys	Glu	Val
				230					235					240
Gly	Gln	Val	Cys	Gln	Glu	Thr	Leu	Leu	Leu	Ile	Asp	Val	Gly	Leu
				245					250					255
Thr	Ser	Thr	Leu	Val	Gly	Thr	Lys	Gly	Cys	Ser	Thr	Val	Gly	Ala
				260					265					270
Gln	Asn	Ser	Gln	Lys	Thr	Thr	Ile	His	Ser	Ala	Pro	Pro	Gly	Val
				275					280					285
Leu	Val	Ala	Ser	Tyr	Thr	His	Phe	Cys	Ser	Ser	Asp	Leu	Cys	Asn
				290					295					300
Ser	Ala	Ser	Ser	Ser	Ser	Val	Leu	Leu	Asn	Ser	Leu	Pro	Pro	Gln
				305					310					315
Ala	Ala	Pro	Val	Pro	Gly	Asp	Arg	Gln	Cys	Pro	Thr	Cys	Val	Gln
				320					325					330
Pro	Leu	Gly	Thr	Cys	Ser	Ser	Gly	Ser	Pro	Arg	Met	Thr	Cys	Pro
				335					340					345
Arg	Gly	Ala	Thr	His	Cys	Tyr	Asp	Gly	Tyr	Ile	His	Leu	Ser	Gly
				350					355					360
Gly	Gly	Leu	Ser	Thr	Lys	Met	Ser	Ile	Gln	Gly	Cys	Val	Ala	Gln
				365					370					375
Pro	Ser	Ser	Phe	Leu	Leu	Asn	His	Thr	Arg	Gln	Ile	Gly	Ile	Phe
				380					385					390
Ser	Ala	Arg	Glu	Lys	Arg	Asp	Val	Gln	Pro	Pro	Ala	Ser	Gln	His
				395					400					405
Glu	Gly	Gly	Gly	Ala	Glu	Gly	Leu	Glu	Ser	Leu	Thr	Trp	Gly	Val
				410					415					420
Gly	Leu	Ala	Leu	Ala	Pro	Ala	Leu	Trp	Trp	Gly	Val	Val	Cys	Pro
				425					430					435

Ser Cys

<210> 356
 <211> 1238
 <212> DNA
 <213> Homo sapiens

<400> 356
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 cctgcctgcg ctcaggatga gggggaatct ggccttggtg ggcgttctaa 100
 tcagcctggc cttcctgtca ctgctgccat ctggacatcc tcagccggct 150
 ggcgatgacg cctgctctgt gcagatcctc gtccttgccc tcaaagggga 200
 tgcgggagag aaggagaca aaggcgcccc cggacggcct ggaagagtcg 250
 gccccacggg agaaaaagga gacatggggg acaaaggaca gaaaggcagt 300
 gtgggtcgtc atggaaaaat tgggtccatt ggctctaaag gtgagaaagg 350
 agattccggt gacataggac cccctggtcc taatggagaa ccaggcctcc 400
 catgtgagtg cagccagctg cgcaaggcca tcggggagat ggacaaccag 450

P2730P1sequencelisting.txt

gtctctcagc tgaccagcga gctcaagttc atcaagaatg ctgtcgccgg 500
 tgtgcgcgag acggagagca agatctacct gctggtgaag gaggagaagc 550
 gctacgcgga cgcccagctg tcctgccagg gccgcggggg cacgctgagc 600
 atgcccagg acgaggctgc caatggcctg atggccgcat acctggcgca 650
 agccggcctg gcccgtgtct tcatcggcat caacgacctg gagaaggagg 700
 gcgccttcgt gtactctgac cactcccca tgcggacctt caacaagtgg 750
 cgcagcggtg agcccaacaa tgcctacgac gaggaggact gcgtggagat 800
 ggtggcctcg ggcggctgga acgacgtggc ctgccacacc accatgtact 850
 tcattgtgtga gtttgacaag gagaacatgt gagcctcagg ctggggctgc 900
 ccattggggg ccccatatgt ccctgcaggg ttggcaggga cagagcccag 950
 accatggtgc cagccaggga gctgtccctc tgtgaagggt ggaggctcac 1000
 tgagtagagg gctgttgtct aaactgagaa aatggcctat gcttaagagg 1050
 aaaatgaaag tgttcctggg gtgctgtctc tgaagaagca gagtttcatt 1100
 acctgtattg tagccccaat gtcattatgt aattattacc cagaattgct 1150
 cttccataaa gcttgtgcct ttgtccaagc tatacaataa aatctttaag 1200
 tagtgcagta gttaagtcca aaaaaaaaaa aaaaaaaaa 1238

<210> 357

<211> 271

<212> PRT

<213> Homo sapiens

<400> 357

Met	Arg	Gly	Asn	Leu	Ala	Leu	Val	Gly	Val	Leu	Ile	Ser	Leu	Ala
1				5					10					15
Phe	Leu	Ser	Leu	Leu	Pro	Ser	Gly	His	Pro	Gln	Pro	Ala	Gly	Asp
				20					25					30
Asp	Ala	Cys	Ser	Val	Gln	Ile	Leu	Val	Pro	Gly	Leu	Lys	Gly	Asp
				35					40					45
Ala	Gly	Glu	Lys	Gly	Asp	Lys	Gly	Ala	Pro	Gly	Arg	Pro	Gly	Arg
				50					55					60
Val	Gly	Pro	Thr	Gly	Glu	Lys	Gly	Asp	Met	Gly	Asp	Lys	Gly	Gln
				65					70					75
Lys	Gly	Ser	Val	Gly	Arg	His	Gly	Lys	Ile	Gly	Pro	Ile	Gly	Ser
				80					85					90
Lys	Gly	Glu	Lys	Gly	Asp	Ser	Gly	Asp	Ile	Gly	Pro	Pro	Gly	Pro
				95					100					105
Asn	Gly	Glu	Pro	Gly	Leu	Pro	Cys	Glu	Cys	Ser	Gln	Leu	Arg	Lys
				110					115					120
Ala	Ile	Gly	Glu	Met	Asp	Asn	Gln	Val	Ser	Gln	Leu	Thr	Ser	Glu
				125					130					135
Leu	Lys	Phe	Ile	Lys	Asn	Ala	Val	Ala	Gly	Val	Arg	Glu	Thr	Glu
				140					145					150

P2730P1sequencelisting.txt

Ser	Lys	Ile	Tyr	Leu	Leu	Val	Lys	Glu	Glu	Lys	Arg	Tyr	Ala	Asp
				155					160					165
Ala	Gln	Leu	Ser	Cys	Gln	Gly	Arg	Gly	Gly	Thr	Leu	Ser	Met	Pro
				170					175					180
Lys	Asp	Glu	Ala	Ala	Asn	Gly	Leu	Met	Ala	Ala	Tyr	Leu	Ala	Gln
				185					190					195
Ala	Gly	Leu	Ala	Arg	Val	Phe	Ile	Gly	Ile	Asn	Asp	Leu	Glu	Lys
				200					205					210
Glu	Gly	Ala	Phe	Val	Tyr	Ser	Asp	His	Ser	Pro	Met	Arg	Thr	Phe
				215					220					225
Asn	Lys	Trp	Arg	Ser	Gly	Glu	Pro	Asn	Asn	Ala	Tyr	Asp	Glu	Glu
				230					235					240
Asp	Cys	Val	Glu	Met	Val	Ala	Ser	Gly	Gly	Trp	Asn	Asp	Val	Ala
				245					250					255
Cys	His	Thr	Thr	Met	Tyr	Phe	Met	Cys	Glu	Phe	Asp	Lys	Glu	Asn
				260					265					270

Met

<210> 358
 <211> 972
 <212> DNA
 <213> Homo sapiens

<400> 358
 agtgactgca gccttcctag atccccctcca ctcggtttct ctctttgcag 50
 gagcaccggc agcaccagtg tgtgagggga gcaggcagcg gtcctagcca 100
 gttccttgat cctgccagac caccagccc ccggcacaga gctgctccac 150
 aggcaccatg aggatcatgc tgctattcac agccatcctg gccttcagcc 200
 tagctcagag ctttggggct gtctgtaagg agccacagga ggaggtgggt 250
 cctggcgggg gccgcagcaa gagggatcca gatctctacc agctgctcca 300
 gagactcttc aaaagccact catctctgga gggattgctc aaagccctga 350
 gccaggctag cacagatcct aaggaatcaa catctcccga gaaacgtgac 400
 atgcatgact tctttgtggg acttatgggc aagaggagcg tccagccaga 450
 gggaaagaca ggacctttct taccttcagt gagggttcct cggccccctc 500
 atcccaatca gcttggatcc acaggaaagt cttccctggg aacagaggag 550
 cagagacctt tataagactc tcctacggat gtgaatcaag agaacgtccc 600
 cagctttggc atcctcaagt atcccccgag agcagaatag gtactccact 650
 tccggactcc tggactgcat taggaagacc tctttccctg tcccaatccc 700
 caggtgcgca cgctcctgtt accctttctc ttccctgttc ttgtaacatt 750
 cttgtgcttt gactccttct ccatcttttc tacctgaccc tgggtgtggaa 800
 actgcatagt gaatatcccc aacccaatg ggcattgact gtagaatacc 850

P2730P1sequencelisting.txt

ctagagttcc tgtagtgtcc tacattaata atataatgtc tctctctatt 900
 cctcaacaat aaaggatttt tgcataatgaa aaaaaaaaaa aaaaaaaaaa 950
 aaaaaaaaaa aaaaaaaaaa aa 972

<210> 359
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 359
 Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu
 1 5 10 15
 Ala Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val
 20 25 30
 Val Pro Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln
 35 40 45
 Leu Leu Gln Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu
 50 55 60
 Leu Lys Ala Leu Ser Gln Ala Ser Thr Asp Pro Lys Glu Ser Thr
 65 70 75
 Ser Pro Glu Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met
 80 85 90
 Gly Lys Arg Ser Val Gln Pro Glu Gly Lys Thr Gly Pro Phe Leu
 95 100 105
 Pro Ser Val Arg Val Pro Arg Pro Leu His Pro Asn Gln Leu Gly
 110 115 120
 Ser Thr Gly Lys Ser Ser Leu Gly Thr Glu Glu Gln Arg Pro Leu
 125 130 135

<210> 360
 <211> 1738
 <212> DNA
 <213> Homo sapiens

<400> 360
 gggcgtctcc ggctgctcct attgagctgt ctgctcgctg tgcccgtgt 50
 gcctgctgtg cccgcgtgt cgccgctgct accgcgtctg ctggacgcgg 100
 gagacgccag cgagctgggtg attggagccc tgcggagagc tcaagcggcc 150
 agctctgccc caggagccca ggctgccccg tgagtcccat agttgctgca 200
 ggagtggagc catgagctgc gtcctgggtg gtgtcatccc cttggggctg 250
 ctgttcctgg tctgcggatc ccaaggctac ctctgcca acgtcactct 300
 cttagaggag ctgctcagca aataccagca caacgagtct cactcccggg 350
 tccgcagagc catccccagg gaggacaagg aggagatcct catgctgcac 400
 aacaagcttc ggggccagggt gcagcctcag gcctccaaca tggagtacat 450
 ggtgagcgcc ggctccggcc gcagaggctg gcaccggggg tggggcctgg 500
 gccaccagcc tgctctgttc ccagccagc tctgttcccc agccagtgcg 550
 tgtgatggct ggctcagggt ctctctggc aggggaggat cccggctctg 600

P2730P1sequence1isting.txt

ttctgttttg tttgtttgtt ttgagacagg gtctcactct gccactgacg 650
ctggagtgca atggcacaat cgtcatgccc tgaaacctta gactcccggg 700
gttaagcgat cctgcttcag cctcccaagt agctggaact acaggcatgc 750
accatggtgc ccagctagat tttaaatttt ttgtggagat ggggggtcttg 800
ctacgttgcc caggctgggc ttgaactcct aggcctcaagc aatcctcctg 850
cctcagcctc tcaaagtgc aggattatag gcatgagtca ccctgtctgg 900
ctctggctct gttcttaaca ttctgcaaaa acaacacacg tgggttcctt 950
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gaacacagct ctacagccttt cccacctgga ggcagagtgg ggagggggccc 1050
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<210> 361

<211> 159

<212> PRT

<213> Homo sapiens

<400> 361

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Leu	Val	Cys	Gly	Ser	Gln	Gly	Tyr	Leu	Leu	Pro	Asn	Val	Thr	Leu
				20					25					30
Leu	Glu	Glu	Leu	Leu	Ser	Lys	Tyr	Gln	His	Asn	Glu	Ser	His	Ser
				35					40					45
Arg	Val	Arg	Arg	Ala	Ile	Pro	Arg	Glu	Asp	Lys	Glu	Glu	Ile	Leu
				50					55					60
Met	Leu	His	Asn	Lys	Leu	Arg	Gly	Gln	Val	Gln	Pro	Gln	Ala	Ser
				65					70					75

P2730P1sequencelisting.txt

Asn Met Glu Tyr Met Val Ser Ala Gly Ser Gly Arg Arg Gly Trp
80 85 90
His Arg Gly Trp Gly Leu Gly His Gln Pro Ala Leu Phe Pro Ser
95 100 105
Gln Leu Cys Ser Pro Ala Ser Ala Cys Asp Gly Trp Leu Arg Val
110 115 120
Ser Ser Gly Arg Gly Gly Ser Arg Leu Cys Ser Val Leu Phe Val
125 130 135
Cys Phe Glu Thr Gly Ser His Ser Ala Thr Asp Ala Gly Val Gln
140 145 150
Trp His Asn Arg His Ala Leu Lys Pro
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<210> 362
<211> 422
<212> DNA
<213> Homo sapiens

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gagtcttttc tgacaaattc ctcctatgag tccagcttcc tggaattgct 200
tgaaaagctc tgcctcctcc tccatctccc ttcagggacc agcgtcaccc 250
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ttgaagcctg tgtccttctt ggcccgggct tttgggccgg ggatgcagga 350
ggcaggcccc gaccctgtct ttcagcaggc cccaccctc ctgagtggca 400
ataaataaaa ttcggtatgc tg 422

<210> 363
<211> 78
<212> PRT
<213> Homo sapiens

<400> 363
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20 25 30
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35 40 45
Glu Leu Leu Glu Lys Leu Cys Leu Leu Leu His Leu Pro Ser Gly
50 55 60
Thr Ser Val Thr Leu His His Ala Arg Ser Gln His His Val Val
65 70 75
Cys Asn Thr

<210> 364
<211> 826

P2730P1sequencelisting.txt

<212> DNA
<213> Homo sapiens

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cctcttacgc atatgttaca aattatctgg agttcctaata caatgcagag 300
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caagtgagtg ttaccttttc acttagtagg atgtgttggtt acgctagtaa 500
aatagaaacc tgtgtttatt ctcagggtatt ttagaaacaa cagccatcat 550
tttattttat gtgtgtgttc ttggctgtat tcataaatta tatatttttg 600
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gattacttga ttcaaataaa ccaattatgt ttgtaattga tattaataaa 800
accagaataa aagttcatat ctaccc 826

<210> 365
<211> 67
<212> PRT
<213> Homo sapiens

<400> 365
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20 25 30
Phe Ser Val Glu Asn Glu Cys Leu Val Asp Leu Cys Leu Leu Arg
35 40 45
Ile Cys Tyr Lys Leu Ser Gly Val Pro Asn Gln Cys Arg Val Pro
50 55 60
Leu Pro Ser Asp Cys Ser Lys
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<210> 366
<211> 2475
<212> DNA
<213> Homo sapiens

<400> 366
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P2730P1sequencelisting.txt

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 aaaaaatata tctgtcatgc tgggaagatg tcagacctac acaagtgagt 350
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 gagattgact acatacaata ctttcgagag gctgacgagt gcatcgtatc 450
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P2730P1sequencelisting.txt

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<210> 367

<211> 402

<212> PRT

<213> Homo sapiens

<400> 367

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				20					25					30
Met	Val	His	Tyr	Ile	Tyr	Gln	Arg	Phe	Arg	Val	Leu	Glu	Gln	Gly
				35					40					45
Leu	Glu	Lys	Cys	Thr	Gln	Ala	Thr	Arg	Ala	Tyr	Ile	Gln	Glu	Phe
				50					55					60
Gln	Glu	Phe	Ser	Lys	Asn	Ile	Ser	Val	Met	Leu	Gly	Arg	Cys	Gln
				65					70					75
Thr	Tyr	Thr	Ser	Glu	Tyr	Lys	Ser	Ala	Val	Gly	Asn	Leu	Ala	Leu
				80					85					90
Arg	Val	Glu	Arg	Ala	Gln	Arg	Glu	Ile	Asp	Tyr	Ile	Gln	Tyr	Leu
				95					100					105
Arg	Glu	Ala	Asp	Glu	Cys	Ile	Val	Ser	Glu	Asp	Lys	Thr	Leu	Ala
				110					115					120
Glu	Met	Leu	Leu	Gln	Glu	Ala	Glu	Glu	Glu	Lys	Lys	Ile	Arg	Thr
				125					130					135
Leu	Leu	Asn	Ala	Ser	Cys	Asp	Asn	Met	Leu	Met	Gly	Ile	Lys	Ser
				140					145					150
Leu	Lys	Ile	Val	Lys	Lys	Met	Met	Asp	Thr	His	Gly	Ser	Trp	Met
				155					160					165

P2730P1sequencelisting.txt

Lys Asp Ala Val	Tyr Asn Ser Pro Lys	Val Tyr Leu Leu Ile	Gly
	170	175	180
Ser Arg Asn Asn	Thr Val Trp Glu Phe	Ala Asn Ile Arg Ala	Phe
	185	190	195
Met Glu Asp Asn	Thr Lys Pro Ala Pro	Arg Lys Gln Ile Leu	Thr
	200	205	210
Leu Ser Trp Gln	Gly Thr Gly Gln Val	Ile Tyr Lys Gly Phe	Leu
	215	220	225
Phe Phe His Asn	Gln Ala Thr Ser Asn	Glu Ile Ile Lys Tyr	Asn
	230	235	240
Leu Gln Lys Arg	Thr Val Glu Asp Arg	Met Leu Leu Pro Gly	Gly
	245	250	255
Val Gly Arg Ala	Leu Val Tyr Gln His	Ser Pro Ser Thr Tyr	Ile
	260	265	270
Asp Leu Ala Val	Asp Glu His Gly Leu	Trp Ala Ile His Ser	Gly
	275	280	285
Pro Gly Thr His	Ser His Leu Val Leu	Thr Lys Ile Glu Pro	Gly
	290	295	300
Thr Leu Gly Val	Glu His Ser Trp Asp	Thr Pro Cys Arg Ser	Gln
	305	310	315
Asp Ala Glu Ala	Ser Phe Leu Leu Cys	Gly Val Leu Tyr Val	Val
	320	325	330
Tyr Ser Thr Gly	Gly Gln Gly Pro His	Arg Ile Thr Cys Ile	Tyr
	335	340	345
Asp Pro Leu Gly	Thr Ile Ser Glu Glu	Asp Leu Pro Asn Leu	Phe
	350	355	360
Phe Pro Lys Arg	Pro Arg Ser His Ser	Met Ile His Tyr Asn	Pro
	365	370	375
Arg Asp Lys Gln	Leu Tyr Ala Trp Asn	Glu Gly Asn Gln Ile	Ile
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<210> 368

<211> 2281

<212> DNA

<213> Homo sapiens

<400> 368

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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<210> 369
 <211> 447
 <212> PRT
 <213> Homo sapiens

<400> 369
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 Trp Leu Arg Ala Gly Glu Glu Arg Ser Gly Arg Pro Ala Cys Gln
 35 40 45
 Lys Ala Asn Gly Phe Pro Pro Asp Lys Ser Ser Gly Ser Lys Lys
 50 55 60
 Gln Lys Gln Tyr Gln Arg Ile Arg Lys Glu Lys Pro Gln Gln His
 65 70 75
 Asn Phe Thr His Arg Leu Leu Ala Ala Ala Leu Lys Ser His Ser
 80 85 90
 Gly Asn Ile Ser Cys Met Asp Phe Ser Ser Asn Gly Lys Tyr Leu
 95 100 105
 Ala Thr Cys Ala Asp Asp Arg Thr Ile Arg Ile Trp Ser Thr Lys
 110 115 120
 Asp Phe Leu Gln Arg Glu His Arg Ser Met Arg Ala Asn Val Glu
 125 130 135
 Leu Asp His Ala Thr Leu Val Arg Phe Ser Pro Asp Cys Arg Ala
 140 145 150
 Phe Ile Val Trp Leu Ala Asn Gly Asp Thr Leu Arg Val Phe Lys
 155 160 165
 Met Thr Lys Arg Glu Asp Gly Gly Tyr Thr Phe Thr Ala Thr Pro
 170 175 180
 Glu Asp Phe Pro Lys Lys His Lys Ala Pro Val Ile Asp Ile Gly
 185 190 195
 Ile Ala Asn Thr Gly Lys Phe Ile Met Thr Ala Ser Ser Asp Thr
 200 205 210
 Thr Val Leu Ile Trp Ser Leu Lys Gly Gln Val Leu Ser Thr Ile
 215 220 225
 Asn Thr Asn Gln Met Asn Asn Thr His Ala Ala Val Ser Pro Cys
 230 235 240
 Gly Arg Phe Val Ala Ser Cys Gly Phe Thr Pro Asp Val Lys Val
 245 250 255
 Trp Glu Val Cys Phe Gly Lys Lys Gly Glu Phe Gln Glu Val Val

P2730P1sequencelisting.txt

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275	280	285
Ala Phe Ser Asn Asp Ser Arg Arg Met	Ala Ser Val Ser Lys Asp	
290	295	300
Gly Thr Trp Lys Leu Trp Asp Thr Asp	Val Glu Tyr Lys Lys Lys	
305	310	315
Gln Asp Pro Tyr Leu Leu Lys Thr Gly	Arg Phe Glu Glu Ala Ala	
320	325	330
Gly Ala Ala Pro Cys Arg Leu Ala Leu	Ser Pro Asn Ala Gln Val	
335	340	345
Leu Ala Leu Ala Ser Gly Ser Ser Ile	His Leu Tyr Asn Thr Arg	
350	355	360
Arg Gly Glu Lys Glu Glu Cys Phe Glu	Arg Val His Gly Glu Cys	
365	370	375
Ile Ala Asn Leu Ser Phe Asp Ile Thr	Gly Arg Phe Leu Ala Ser	
380	385	390
Cys Gly Asp Arg Ala Val Arg Leu Phe	His Asn Thr Pro Gly His	
395	400	405
Arg Ala Met Val Glu Glu Met Gln Gly	His Leu Lys Arg Ala Ser	
410	415	420
Asn Glu Ser Thr Arg Gln Arg Leu Gln	Gln Gln Leu Thr Gln Ala	
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Gln Glu Thr Leu Lys Ser Leu Gly Ala	Leu Lys Lys	
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<210> 370

<211> 1415

<212> DNA

<213> Homo sapiens

<400> 370

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P2730P1sequencelisting.txt

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<211> 105
<212> PRT
<213> Homo sapiens

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35 40 45
Gly Leu Arg Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys
50 55 60
His Pro Gly Ser His Lys Val Pro Phe Phe Arg Lys Arg Lys His
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His Thr Cys Pro Cys Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro
80 85 90
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95 100 105

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<211> 1281
<212> DNA
<213> Homo sapiens

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P2730P1sequencelisting.txt

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 cattggtgca ggagccctgg gggctgctgc cttggcattg ctgcttgcca 150
 acacagacgt gtttctgtcc aagccccaga aagcggccct ggagtacctg 200
 gaggatatag acctgaaaac actggagaag gaaccaagga ctttcaaagc 250
 aaaggagcta tgggaaaaaa atggagctgt gattatggcc gtgcggaggc 300
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 tttatgggat ttatccgtct gggagtgtgg tacaacttct tccgagcctg 550
 gaacggaggc ttctctggaa acctggaagg agaaggcttc atccttgggg 600
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 taagatgata aaaccacaga ctttggcctc agagaaaaaa tgattgtgtg 750
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 ggcaggcacc tgtagtccca gctaccggg aggctgaggc aggagaatca 1200
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<210> 373

<211> 229

<212> PRT

<213> Homo sapiens

<400> 373

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Ser	Ile	Gly	Ala	Gly	Ala	Leu	Gly	Ala	Ala	Ala	Leu	Ala	Leu	Leu
				20					25				30	
Leu	Ala	Asn	Thr	Asp	Val	Phe	Leu	Ser	Lys	Pro	Gln	Lys	Ala	Ala
				35					40				45	
Leu	Glu	Tyr	Leu	Glu	Asp	Ile	Asp	Leu	Lys	Thr	Leu	Glu	Lys	Glu
				50					55				60	

P2730P1sequencelisting.txt

Pro Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala
65 70 75
Val Ile Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu
80 85 90
Glu Ala Ala Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu
95 100 105
Gly Val Pro Leu Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu
110 115 120
Val Lys Asp Phe Gln Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp
125 130 135
Glu Lys Lys Lys Phe Tyr Gly Pro Gln Arg Arg Lys Met Met Phe
140 145 150
Met Gly Phe Ile Arg Leu Gly Val Trp Tyr Asn Phe Phe Arg Ala
155 160 165
Trp Asn Gly Gly Phe Ser Gly Asn Leu Glu Gly Glu Gly Phe Ile
170 175 180
Leu Gly Gly Val Phe Val Val Gly Ser Gly Lys Gln Gly Ile Leu
185 190 195
Leu Glu His Arg Glu Lys Glu Phe Gly Asp Lys Val Asn Leu Leu
200 205 210
Ser Val Leu Glu Ala Ala Lys Met Ile Lys Pro Gln Thr Leu Ala
215 220 225
Ser Glu Lys Lys

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<211> 744
<212> DNA
<213> Homo sapiens

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gccaccagc ccatggcgaa ccccgggctg gggctgcttc tggcgctggg 200
cctgccgttc ctgctggccc gctggggccg agcctggggg caaatacaga 250
ccacttctgc aaatgagaat agcactgttt tgccttcac caccagctcc 300
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agcgaggagc agttctccca tgcagccgag gcccgggccc ctcaggactc 500
caaggagacg gtgcagggct gcctgcccac ctagggtccc tctcctgcat 550
ctgtctccct tcattgctgt gtgaccttgg ggaaaggcag tgccctctct 600
gggcagtcag atccaccag tgcttaatag cagggaagaa ggtacttcaa 650

P2730P1sequencelisting.txt

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tttatataaa attagtagtg agatgtaaaa aaaaaaaaaa aaaa 744

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<212> PRT
<213> Homo sapiens

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20 25 30
Thr Ser Ala Asn Glu Asn Ser Thr Val Leu Pro Ser Ser Thr Ser
35 40 45
Ser Ser Ser Asp Gly Asn Leu Arg Pro Glu Ala Ile Thr Ala Ile
50 55 60
Ile Val Val Phe Ser Leu Leu Ala Ala Leu Leu Leu Ala Val Gly
65 70 75
Leu Ala Leu Leu Val Arg Lys Leu Arg Glu Lys Arg Gln Thr Glu
80 85 90
Gly Thr Tyr Arg Pro Ser Ser Glu Glu Gln Phe Ser His Ala Ala
95 100 105
Glu Ala Arg Ala Pro Gln Asp Ser Lys Glu Thr Val Gln Gly Cys
110 115 120
Leu Pro Ile

<210> 376
<211> 713
<212> DNA
<213> Homo sapiens

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agaaccacag tcaaccacac caatcatctt tagaagacag tgtgactcct 250
accaaagctg tcaaaaccac aggcaagggc atagttaaag gacggaatct 300
tgactcaaga ggggttaattc ttggtgctga agcctggggc aggggtgtaa 350
agaaaaacac ttagattcaa tgattgtaaa tttaaggcaa atacacatat 400
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attataagta ccctatgcag ttggctggac agttctaaat tggactttat 500
taatttttaa aatcagtaac tgatttatca ctggctatgt gcttagatct 550
acaggagatc atataatttg atacaaataa aagaaaagtg ttctctcccc 600

P2730P1sequencelisting.txt

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 attagaaagg aagaatgaca gggagaaagg aaagaaggga aaatgttgcc 700
 aaggaaaaaa aaa 713

<210> 377
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 377.
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 20 25 30
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 35 40 45
 Ser Leu Glu Asp Ser Val Thr Pro Thr Lys Ala Val Lys Thr Thr
 50 55 60
 Gly Lys Gly Ile Val Lys Gly Arg Asn Leu Asp Ser Arg Gly Leu
 65 70 75
 Ile Leu Gly Ala Glu Ala Trp Gly Arg Gly Val Lys Lys Asn Thr
 80 85 90

<210> 378
 <211> 3265
 <212> DNA
 <213> Homo sapiens

<400> 378
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 ccagaagatg aaaaaataat tgaacaaata gaggatatgg tgactacagc 200
 ttctacgtac ctgtttgaag ccacagaaaa aagatttttt ttcaaaaatg 250
 tatctatatt aattcctgag aattggaagg aaaatcctca gtacaaaagg 300
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 agaaaggcga atacattcac ttcacccctg accttctact tggaaaaaaa 450
 caaatgaat atggaccacc aggcaaactg tttgtccatg agtggggtca 500
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P2730P1sequencelisting.txt

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caccaggaga taattttgat gttggaaaag ttcaacgtta tatcataaga 2400
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P2730P1sequencelisting.txt

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attgccatta aaagtataga taaaagcaat ttgacatcaa aagtatccaa 2600
cattgcacaa gtaactttgt ttatccctca agcaaatacct gatgacattg 2650
atcctacacc tactcctact cctactccta ctcttgataa aagtcataat 2700
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gatattttcaa attgcatcaa gaaattaaaa tcacttatct gagtagtcaa 3150
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<210> 379

<211> 919

<212> PRT

<213> Homo sapiens

<400> 379

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				20					25					30
Phe	Glu	Asp	Ile	Val	Ile	Val	Ile	Asp	Pro	Ser	Val	Pro	Glu	Asp
				35					40					45
Glu	Lys	Ile	Ile	Glu	Gln	Ile	Glu	Asp	Met	Val	Thr	Thr	Ala	Ser
				50					55					60
Thr	Tyr	Leu	Phe	Glu	Ala	Thr	Glu	Lys	Arg	Phe	Phe	Phe	Lys	Asn
				65					70					75
Val	Ser	Ile	Leu	Ile	Pro	Glu	Asn	Trp	Lys	Glu	Asn	Pro	Gln	Tyr
				80					85					90
Lys	Arg	Pro	Lys	His	Glu	Asn	His	Lys	His	Ala	Asp	Val	Ile	Val
				95					100					105
Ala	Pro	Pro	Thr	Leu	Pro	Gly	Arg	Asp	Glu	Pro	Tyr	Thr	Lys	Gln
				110					115					120
Phe	Thr	Glu	Cys	Gly	Glu	Lys	Gly	Glu	Tyr	Ile	His	Phe	Thr	Pro
				125					130					135
Asp	Leu	Leu	Leu	Gly	Lys	Lys	Gln	Asn	Glu	Tyr	Gly	Pro	Pro	Gly
				140					145					150

P2730P1sequencelisting.txt

Lys	Leu	Phe	Val	His	Glu	Trp	Ala	His	Leu	Arg	Trp	Gly	Val	Phe	155	160	165
Asp	Glu	Tyr	Asn	Glu	Asp	Gln	Pro	Phe	Tyr	Arg	Ala	Lys	Ser	Lys	170	175	180
Lys	Ile	Glu	Ala	Thr	Arg	Cys	Ser	Ala	Gly	Ile	Ser	Gly	Arg	Asn	185	190	195
Arg	Val	Tyr	Lys	Cys	Gln	Gly	Gly	Ser	Cys	Leu	Ser	Arg	Ala	Cys	200	205	210
Arg	Ile	Asp	Ser	Thr	Thr	Lys	Leu	Tyr	Gly	Lys	Asp	Cys	Gln	Phe	215	220	225
Phe	Pro	Asp	Lys	Val	Gln	Thr	Glu	Lys	Ala	Ser	Ile	Met	Phe	Met	230	235	240
Gln	Ser	Ile	Asp	Ser	Val	Val	Glu	Phe	Cys	Asn	Glu	Lys	Thr	His	245	250	255
Asn	Gln	Glu	Ala	Pro	Ser	Leu	Gln	Asn	Ile	Lys	Cys	Asn	Phe	Arg	260	265	270
Ser	Thr	Trp	Glu	Val	Ile	Ser	Asn	Ser	Glu	Asp	Phe	Lys	Asn	Thr	275	280	285
Ile	Pro	Met	Val	Thr	Pro	Pro	Pro	Pro	Pro	Val	Phe	Ser	Leu	Leu	290	295	300
Lys	Ile	Ser	Gln	Arg	Ile	Val	Cys	Leu	Val	Leu	Asp	Lys	Ser	Gly	305	310	315
Ser	Met	Gly	Gly	Lys	Asp	Arg	Leu	Asn	Arg	Met	Asn	Gln	Ala	Ala	320	325	330
Lys	His	Phe	Leu	Leu	Gln	Thr	Val	Glu	Asn	Gly	Ser	Trp	Val	Gly	335	340	345
Met	Val	His	Phe	Asp	Ser	Thr	Ala	Thr	Ile	Val	Asn	Lys	Leu	Ile	350	355	360
Gln	Ile	Lys	Ser	Ser	Asp	Glu	Arg	Asn	Thr	Leu	Met	Ala	Gly	Leu	365	370	375
Pro	Thr	Tyr	Pro	Leu	Gly	Gly	Thr	Ser	Ile	Cys	Ser	Gly	Ile	Lys	380	385	390
Tyr	Ala	Phe	Gln	Val	Ile	Gly	Glu	Leu	His	Ser	Gln	Leu	Asp	Gly	395	400	405
Ser	Glu	Val	Leu	Leu	Leu	Thr	Asp	Gly	Glu	Asp	Asn	Thr	Ala	Ser	410	415	420
Ser	Cys	Ile	Asp	Glu	Val	Lys	Gln	Ser	Gly	Ala	Ile	Val	His	Phe	425	430	435
Ile	Ala	Leu	Gly	Arg	Ala	Ala	Asp	Glu	Ala	Val	Ile	Glu	Met	Ser	440	445	450
Lys	Ile	Thr	Gly	Gly	Ser	His	Phe	Tyr	Val	Ser	Asp	Glu	Ala	Gln	455	460	465
Asn	Asn	Gly	Leu	Ile	Asp	Ala	Phe	Gly	Ala	Leu	Thr	Ser	Gly	Asn	470	475	480
Thr	Asp	Leu	Ser	Gln	Lys	Ser	Leu	Gln	Leu	Glu	Ser	Lys	Gly	Leu	485	490	495

P2730P1sequencelisting.txt

Thr	Leu	Asn	Ser	Asn	Ala	Trp	Met	Asn	Asp	Thr	Val	Ile	Ile	Asp
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				515					520					525
Leu	Pro	Pro	Ser	Ile	Ser	Leu	Trp	Asp	Pro	Ser	Gly	Thr	Ile	Met
				530					535					540
Glu	Asn	Phe	Thr	Val	Asp	Ala	Thr	Ser	Lys	Met	Ala	Tyr	Leu	Ser
				545					550					555
Ile	Pro	Gly	Thr	Ala	Lys	Val	Gly	Thr	Trp	Ala	Tyr	Asn	Leu	Gln
				560					565					570
Ala	Lys	Ala	Asn	Pro	Glu	Thr	Leu	Thr	Ile	Thr	Val	Thr	Ser	Arg
				575					580					585
Ala	Ala	Asn	Ser	Ser	Val	Pro	Pro	Ile	Thr	Val	Asn	Ala	Lys	Met
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Asn	Lys	Asp	Val	Asn	Ser	Phe	Pro	Ser	Pro	Met	Ile	Val	Tyr	Ala
				605					610					615
Glu	Ile	Leu	Gln	Gly	Tyr	Val	Pro	Val	Leu	Gly	Ala	Asn	Val	Thr
				620					625					630
Ala	Phe	Ile	Glu	Ser	Gln	Asn	Gly	His	Thr	Glu	Val	Leu	Glu	Leu
				635					640					645
Leu	Asp	Asn	Gly	Ala	Gly	Ala	Asp	Ser	Phe	Lys	Asn	Asp	Gly	Val
				650					655					660
Tyr	Ser	Arg	Tyr	Phe	Thr	Ala	Tyr	Thr	Glu	Asn	Gly	Arg	Tyr	Ser
				665					670					675
Leu	Lys	Val	Arg	Ala	His	Gly	Gly	Ala	Asn	Thr	Ala	Arg	Leu	Lys
				680					685					690
Leu	Arg	Pro	Pro	Leu	Asn	Arg	Ala	Ala	Tyr	Ile	Pro	Gly	Trp	Val
				695					700					705
Val	Asn	Gly	Glu	Ile	Glu	Ala	Asn	Pro	Pro	Arg	Pro	Glu	Ile	Asp
				710					715					720
Glu	Asp	Thr	Gln	Thr	Thr	Leu	Glu	Asp	Phe	Ser	Arg	Thr	Ala	Ser
				725					730					735
Gly	Gly	Ala	Phe	Val	Val	Ser	Gln	Val	Pro	Ser	Leu	Pro	Leu	Pro
				740					745					750
Asp	Gln	Tyr	Pro	Pro	Ser	Gln	Ile	Thr	Asp	Leu	Asp	Ala	Thr	Val
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His	Glu	Asp	Lys	Ile	Ile	Leu	Thr	Trp	Thr	Ala	Pro	Gly	Asp	Asn
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Phe	Asp	Val	Gly	Lys	Val	Gln	Arg	Tyr	Ile	Ile	Arg	Ile	Ser	Ala
				785					790					795
Ser	Ile	Leu	Asp	Leu	Arg	Asp	Ser	Phe	Asp	Asp	Ala	Leu	Gln	Val
				800					805					810
Asn	Thr	Thr	Asp	Leu	Ser	Pro	Lys	Glu	Ala	Asn	Ser	Lys	Glu	Ser
				815					820					825
Phe	Ala	Phe	Lys	Pro	Glu	Asn	Ile	Ser	Glu	Glu	Asn	Ala	Thr	His

P2730P1sequencelisting.txt

830		835		840
Ile Phe Ile Ala	Ile Lys Ser Ile Asp	Lys Ser Asn Leu Thr	Ser	
845	850		855	
Lys Val Ser Asn	Ile Ala Gln Val Thr	Leu Phe Ile Pro Gln	Ala	
860	865		870	
Asn Pro Asp Asp	Ile Asp Pro Thr Pro	Thr Pro Thr Pro Thr	Pro	
875	880		885	
Thr Pro Asp Lys	Ser His Asn Ser Gly	Val Asn Ile Ser Thr	Leu	
890	895		900	
Val Leu Ser Val	Ile Gly Ser Val Val	Ile Val Asn Phe Ile	Leu	
905	910		915	
Ser Thr Thr Ile				

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 <211> 3877
 <212> DNA
 <213> Homo sapiens

<400> 380
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 aaggaggagc tgcaggagag gagtgagcag ctcaggaatg ggcagtacca 950
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P2730P1sequencelisting.txt

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gaaagtgaaa aatgaaaagc tcaacatggc caacacgctt atcaatgtta 1450
tcgtgcctct agcaaaaagg gtggacaagt tccggcagtt catgcagaat 1500
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P2730P1sequencelisting.txt

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<210> 381
 <211> 532
 <212> PRT
 <213> Homo sapiens

<400> 381
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 20 25 30
 Met Leu Ala Cys Thr Pro Lys Gly Asp Glu Glu Gln Leu Ala Leu
 35 40 45
 Pro Arg Ala Asn Ser Pro Thr Gly Lys Glu Gly Tyr Gln Ala Val
 50 55 60
 Leu Gln Glu Trp Glu Glu Gln His Arg Asn Tyr Val Ser Ser Leu
 65 70 75
 Lys Arg Gln Ile Ala Gln Leu Lys Glu Glu Leu Gln Glu Arg Ser

P2730P1sequencelisting.txt

80	85	90
Glu Gln Leu Arg Asn 95	Gly Gln Tyr Gln Ala 100	Ser Asp Ala Ala Gly 105
Leu Gly Leu Asp Arg 110	Ser Pro Pro Glu Lys 115	Thr Gln Ala Asp Leu 120
Leu Ala Phe Leu His 125	Ser Gln Val Asp Lys 130	Ala Glu Val Asn Ala 135
Gly Val Lys Leu Ala 140	Thr Glu Tyr Ala Ala 145	Val Pro Phe Asp Ser 150
Phe Thr Leu Gln Lys 155	Val Tyr Gln Leu Glu 160	Thr Gly Leu Thr Arg 165
His Pro Glu Glu Lys 170	Pro Val Arg Lys Asp 175	Lys Arg Asp Glu Leu 180
Val Glu Ala Ile Glu 185	Ser Ala Leu Glu Thr 190	Leu Asn Asn Pro Ala 195
Glu Asn Ser Pro Asn 200	His Arg Pro Tyr Thr 205	Ala Ser Asp Phe Ile 210
Glu Gly Ile Tyr Arg 215	Thr Glu Arg Asp Lys 220	Gly Thr Leu Tyr Glu 225
Leu Thr Phe Lys Gly 230	Asp His Lys His Glu 235	Phe Lys Arg Leu Ile 240
Leu Phe Arg Pro Phe 245	Ser Pro Ile Met Lys 250	Val Lys Asn Glu Lys 255
Leu Asn Met Ala Asn 260	Thr Leu Ile Asn Val 265	Ile Val Pro Leu Ala 270
Lys Arg Val Asp Lys 275	Phe Arg Gln Phe Met 280	Gln Asn Phe Arg Glu 285
Met Cys Ile Glu Gln 290	Asp Gly Arg Val His 295	Leu Thr Val Val Tyr 300
Phe Gly Lys Glu Glu 305	Ile Asn Glu Val Lys 310	Gly Ile Leu Glu Asn 315
Thr Ser Lys Ala Ala 320	Asn Phe Arg Asn Phe 325	Thr Phe Ile Gln Leu 330
Asn Gly Glu Phe Ser 335	Arg Gly Lys Gly Leu 340	Asp Val Gly Ala Arg 345
Phe Trp Lys Gly Ser 350	Asn Val Leu Leu Phe 355	Phe Cys Asp Val Asp 360
Ile Tyr Phe Thr Ser 365	Glu Phe Leu Asn Thr 370	Cys Arg Leu Asn Thr 375
Gln Pro Gly Lys Lys 380	Val Phe Tyr Pro Val 385	Leu Phe Ser Gln Tyr 390
Asn Pro Gly Ile Ile 395	Tyr Gly His His Asp 400	Ala Val Pro Pro Leu 405
Glu Gln Gln Leu Val 410	Ile Lys Lys Glu Thr 415	Gly Phe Trp Arg Asp 420

P2730P1sequencelisting.txt

Phe Gly Phe Gly Met Thr Cys Gln Tyr Arg Ser Asp Phe Ile Asn
425 430 435
Ile Gly Gly Phe Asp Leu Asp Ile Lys Gly Trp Gly Gly Glu Asp
440 445 450
Val His Leu Tyr Arg Lys Tyr Leu His Ser Asn Leu Ile Val Val
455 460 465
Arg Thr Pro Val Arg Gly Leu Phe His Leu Trp His Glu Lys Arg
470 475 480
Cys Met Asp Glu Leu Thr Pro Glu Gln Tyr Lys Met Cys Met Gln
485 490 495
Ser Lys Ala Met Asn Glu Ala Ser His Gly Gln Leu Gly Met Leu
500 505 510
Val Phe Arg His Glu Ile Glu Ala His Leu Arg Lys Gln Lys Gln
515 520 525
Lys Thr Ser Ser Lys Lys Thr
530

<210> 382

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 382

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<210> 383

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 383

gcgaaggatga gcctctatct cgtgcc 26

<210> 384

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 384

cagcctacac gtattgagg 19

<210> 385

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 385

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P2730P1sequencelisting.txt

<210> 386
 <211> 1346
 <212> DNA
 <213> Homo sapiens

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 gaacagctct gggagataaa gcatatgcct gggataccaa tgaagaatac 150
 ctcttcaaag cgatggtagc tttctccatg agaaaagttc ccaacagaga 200
 agcaacagaa atttcccatg tcctactttg caatgtaacc cagagggtat 250
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 gttgaggtgc aatcagccat aagaatgaac aagaaccgga tcaacaatgc 350
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 ttgcaccacc catggaccca tctgtgcccc tctggattat tatatttggt 450
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 gatctggcaa cgtagaagaa agaacaaga accatctgaa gtggatgacg 550
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 gttgattata tattttctga atatcagccc ctaataggac aattctattt 1250
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<210> 387
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 387
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 1 5 10 15

P2730P1sequencelisting.txt

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20 25 30
Ile Arg Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn
35 40 45
Glu Glu Tyr Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys
50 55 60
Val Pro Asn Arg Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys
65 70 75
Asn Val Thr Gln Arg Val Ser Phe Trp Phe Val Val Thr Asp Pro
80 85 90
Ser Lys Asn His Thr Leu Pro Ala Val Glu Val Gln Ser Ala Ile
95 100 105
Arg Met Asn Lys Asn Arg Ile Asn Asn Ala Phe Phe Leu Asn Asp
110 115 120
Gln Thr Leu Glu Phe Leu Lys Ile Pro Ser Thr Leu Ala Pro Pro
125 130 135
Met Asp Pro Ser Val Pro Ile Trp Ile Ile Ile Phe Gly Val Ile
140 145 150
Phe Cys Ile Ile Ile Val Ala Ile Ala Leu Leu Ile Leu Ser Gly
155 160 165
Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro Ser Glu Val Asp
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185 190 195
Ile Pro Ser Asp Pro Leu Asp Met Lys Gly Gly Ile Leu Met Met
200 205 210
Pro Ser

<210> 388
<211> 1371
<212> DNA
<213> Homo sapiens

<400> 388
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gccaaggctg gggttccctc atgtatggca agagctctac tcgtgcggtg 150
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ctactaccac atagatccct tccaacccat gagtgggcgg tttaaggacc 400
gggtgtcttg ggatgggaat cctgagcggg acgatgcctc catccttctc 450
tggaactgc agttcgacga caatgggaca tacacctgcc aggtgaagaa 500

P2730P1sequencelisting.txt

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aatcaaaaga agaggaaagg ctcaaccaag agaaaaaggt ctctgtttat 750
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acagtaaadc ctaaattcaa actgttaaata gacattttta tttttatgtc 1300
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<210> 389

<211> 215

<212> PRT

<213> Homo sapiens

<400> 389

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          20          25          30
Thr Ser Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu
          35          40          45
Lys Cys Thr Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr
          50          55          60
Val Thr Trp Asn Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe
          65          70          75
Val Phe Tyr Tyr His Ile Asp Pro Phe Gln Pro Met Ser Gly Arg
          80          85          90
Phe Lys Asp Arg Val Ser Trp Asp Gly Asn Pro Glu Arg Tyr Asp
          95          100          105
Ala Ser Ile Leu Leu Trp Lys Leu Gln Phe Asp Asp Asn Gly Thr
          110          115          120
Tyr Thr Cys Gln Val Lys Asn Pro Pro Asp Val Asp Gly Val Ile

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P2730P1sequencelisting.txt

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	140		145		150
Ile His Phe Leu	Ala Leu Ala Ile Gly Ser Ala Cys Ala Leu Met				
	155		160		165
Ile Ile Ile Val	Ile Val Val Val Leu Phe Gln His Tyr Arg Lys				
	170		175		180
Lys Arg Trp Ala	Glu Arg Ala His Lys Val Val Glu Ile Lys Ser				
	185		190		195
Lys Glu Glu Glu	Arg Leu Asn Gln Glu Lys Lys Val Ser Val Tyr				
	200		205		210
Leu Glu Asp Thr	Asp				
	215				

<210> 390
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 <213> Artificial Sequence

<220>
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<400> 390
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<210> 391
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 <212> DNA
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<220>
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<400> 391
 acaggcagag ccaatggcca gagc 24

<210> 392
 <211> 45
 <212> DNA
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<220>
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<400> 392
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<210> 393
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 393
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 atccgacaac agctgctcca gctgacacgt atccagctac tggctcctgct 150
 gatgatgaag cccctgatgc tgaaccact gctgctgcaa ccaactgcgac 200
 cactgctgct cctaccactg caaccaccgc tgcttctacc actgctcgta 250

P2730P1sequencelisting.txt

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 gtgtgtccct gagatggaat cagcttgagt cttctgcaat tggtcacaac 350
 tattcatgct tctgtgatt tcatccaact acttaccttg cctacgatat 400
 cccctttatc tctaatacagt ttattttctt tcaaataaaa aataactatg 450
 agcaacataa aaaaaaaaaa a 471

<210> 394
 <211> 90
 <212> PRT
 <213> Homo sapiens

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 20 25 30
 Tyr Pro Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu
 35 40 45
 Thr Thr Ala Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr
 50 55 60
 Ala Thr Thr Ala Ala Ser Thr Thr Ala Arg Lys Asp Ile Pro Val
 65 70 75
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 80 85 90

<210> 395
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 395
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<210> 396
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 396
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<210> 397
 <211> 42
 <212> DNA
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<220>
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P2730P1sequencelisting.txt

<210> 398
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 gtgttcacgg tggcctggtc cctccttgcc gagagagtgt cctgggtcag 200
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 ggagtggcac gaggtggggc tttgtgccag taaaaccaca ggctggattt 500
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 agcaattaaa actgagaaat gggccgggca cgggtggctca cgctgtaat 650
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 aaattagcca ggcacagtgg tgtgcactgg tagtcccagt tactcgggag 800
 gctgaggcag gaaaatcgct tgaaccagg aggcggacgt tgcggtgagc 850
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 tcacaca 907

<210> 399
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 399
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 Asp Ala His Arg Leu Gln Pro Phe Val Thr Glu Arg Thr Leu Gly
 35 40 45
 Lys Val Gln Arg Trp Ser Gly Val His Thr Gln Thr Gly Gly Arg
 50 55 60
 Ala Gly Gly Gly Gln Phe Cys Cys Ala Trp Leu Asp Ser Lys Arg
 65 70 75
 Val Leu Ala Ser Pro Gly Trp Gly Ala Ala Asn Ser Ile Lys Asn
 80 85 90

P2730P1sequencelisting.txt

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Cys Cys Trp Pro Val Gly Val Ala Arg Gly Gly Ala Leu Cys Gln
110 115 120

<210> 400

<211> 893

<212> DNA

<213> Homo sapiens

<400> 400

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aggagctgac cctgctcttc catgggaccc tgcagctggg ccaggccctc 150
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<210> 401

<211> 198

<212> PRT

<213> Homo sapiens

<400> 401

Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met Val
1 5 10 15
Thr Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala
20 25 30
Gln His Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu
35 40 45
Gly Gln Ala Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu
50 55 60
Thr Lys Ala Arg Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu
65 70 75

P2730P1sequencelisting.txt

Leu	Leu	Gly	Gln	Glu	Val	Ser	Arg	Gly	Arg	Asp	Ala	Ala	Gln	Glu
				80					85					90
Leu	Arg	Ala	Ser	Leu	Leu	Glu	Thr	Gln	Met	Glu	Glu	Asp	Ile	Leu
				95					100					105
Gln	Leu	Gln	Ala	Glu	Ala	Thr	Ala	Glu	Val	Leu	Gly	Glu	Val	Ala
				110					115					120
Gln	Ala	Gln	Lys	Val	Leu	Arg	Asp	Ser	Val	Gln	Arg	Leu	Glu	Val
				125					130					135
Gln	Leu	Arg	Ser	Ala	Trp	Leu	Gly	Pro	Ala	Tyr	Arg	Glu	Phe	Glu
				140					145					150
Val	Leu	Lys	Ala	His	Ala	Asp	Lys	Gln	Ser	His	Ile	Leu	Trp	Ala
				155					160					165
Leu	Thr	Gly	His	Val	Gln	Arg	Gln	Arg	Arg	Glu	Met	Val	Ala	Gln
				170					175					180
Gln	His	Arg	Leu	Arg	Gln	Ile	Gln	Glu	Arg	Leu	His	Thr	Ala	Ala
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Leu Pro Ala

<210> 402
 <211> 1915
 <212> DNA
 <213> Homo sapiens

<400> 402
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 aaggatggag atctgaagac tcaaattgaa aagctctgga cagaagtcaa 200
 tgccttgaag gaaattcaag ccctgcagac agtctgtctc cgaggcacta 250
 aagttcacia gaaatgctac cttgcttcag aaggtttgaa gcatttccat 300
 gaggccaatg aagactgcat ttccaaagga ggaatcctgg ttatccccag 350
 gaactccgac gaaatcaacg ccctccaaga ctatggtaaa aggagcctgc 400
 caggtgtcaa tgacttttgg ctgggcatca atgacatggt cacggaaggc 450
 aagtttggtg acgtcaacgg aatcgctatc tccttcctca actgggaccg 500
 tgcacagcct aacggtggca agcgagaaaa ctgtgtcctg ttctcccaat 550
 cagctcaggg caagtggagt gatgaggcct gtcgcagcag caagagatac 600
 atatgcgagt tcaccatccc taaataggtc tttctccaat gtgtcctcca 650
 agcaagattc atcataactt ataggttcat gatctctaag atcaagtaaa 700
 aatcataatt ttacttatt aaaaaattgc aacacaagat caatgtccat 750
 agcaatatga tagcatcagc caattttgct aacacatttc tttgggattt 800
 tgcccttcct ggggtatagg ggatcagaaa tattgatcca tgtgcacgca 850

P2730P1sequencelisting.txt

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gaagtttagc gtatgtttga ctaacaaaaa ttccctacat cagagactct 1050
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tgaagagggt ctgatttgat tttttttttt tcttcatgcc tacccttttt 1250
ttggaagttt ccagccgcaa tttgaaatga aatgacaagg tgtatatattg 1300
atcaattttc attccacca ttgcattaca acctctaact taaatgggta 1350
accctaaggc atatcaaaga agcagattgc atgataaacg gaaatagaaa 1400
aaaagaacct acattttattt tgcttttagca tccttactct caccttttat 1450
gagattgaga gtggacttac atttcctttt ttacattttc gtatatattat 1500
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tggaagctga aaactgaatt taaagaatgc tatcttgga aattgcatac 1600
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cttcaaataa atagtgttta aacattgaat gtgttttggt aacaatatcc 1800
cactttgcaa actttaacta cacatgcttg gaattaagtt ttagctgttt 1850
tcattgctca ataataaagc ctgaattctg atcaataaaa aaaaaaaaaa 1900
aaaaaaaaaa aaaaa 1915

<210> 403
<211> 206
<212> PRT
<213> Homo sapiens

<400> 403
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Val Ile Cys Ile Leu Val Ile Thr Leu Leu Leu Asp Gln Thr Thr
20 25 30
Ser His Thr Ser Arg Leu Lys Ala Arg Lys His Ser Lys Arg Arg
35 40 45
Val Arg Asp Lys Asp Gly Asp Leu Lys Thr Gln Ile Glu Lys Leu
50 55 60
Trp Thr Glu Val Asn Ala Leu Lys Glu Ile Gln Ala Leu Gln Thr
65 70 75
Val Cys Leu Arg Gly Thr Lys Val His Lys Lys Cys Tyr Leu Ala
80 85 90

P2730P1sequencelisting.txt

Ser Glu Gly Leu Lys His Phe His Glu Ala Asn Glu Asp Cys Ile
95 100 105
Ser Lys Gly Gly Ile Leu Val Ile Pro Arg Asn Ser Asp Glu Ile
110 115 120
Asn Ala Leu Gln Asp Tyr Gly Lys Arg Ser Leu Pro Gly Val Asn
125 130 135
Asp Phe Trp Leu Gly Ile Asn Asp Met Val Thr Glu Gly Lys Phe
140 145 150
Val Asp Val Asn Gly Ile Ala Ile Ser Phe Leu Asn Trp Asp Arg
155 160 165
Ala Gln Pro Asn Gly Gly Lys Arg Glu Asn Cys Val Leu Phe Ser
170 175 180
Gln Ser Ala Gln Gly Lys Trp Ser Asp Glu Ala Cys Arg Ser Ser
185 190 195
Lys Arg Tyr Ile Cys Glu Phe Thr Ile Pro Lys
200 205

<210> 404

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 404

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<210> 405

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 405

ctcttgctgc tgcgacaggc ctc 23

<210> 406

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 406

cgccctccaa gactatggta aaaggagcct gccaggtgac aatgac 46

<210> 407

<211> 570

<212> DNA

<213> Homo sapiens

<400> 407

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ggctctgcgt ggccctgtcc tgcagctccg ctgctgcttt cttagtgggc 150

P2730P1sequencelisting.txt

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 tcccagaagt gtgtggctga gctgggtccc caggccgtgg gggccgtgaa 350
 ggccctgaag gccctgtctg gggccctgac agtgtttggc tgagccgaga 400
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 ataaacgtgg ttaagagcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 550
 aaaaaaaaaa aaaaaaaaaa 570

<210> 408
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 408
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 Ser Ser Ala Ala Ala Phe Leu Val Gly Ser Ala Lys Pro Val Ala
 20 25 30
 Gln Pro Val Ala Ala Leu Glu Ser Ala Ala Glu Ala Gly Ala Gly
 35 40 45
 Thr Leu Ala Asn Pro Leu Gly Thr Leu Asn Pro Leu Lys Leu Leu
 50 55 60
 Leu Ser Ser Leu Gly Ile Pro Val Asn His Leu Ile Glu Gly Ser
 65 70 75
 Gln Lys Cys Val Ala Glu Leu Gly Pro Gln Ala Val Gly Ala Val
 80 85 90
 Lys Ala Leu Lys Ala Leu Leu Gly Ala Leu Thr Val Phe Gly
 95 100

<210> 409
 <211> 2089
 <212> DNA
 <213> Homo sapiens

<400> 409
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 ggccccagc cctcagtcgc cagagacccc agcccctcag aaccagacca 200
 gcagggtagt gcaggctccc agggaggaag aggaagatga gcaggaggcc 250
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 gcagcagctt gccaaaggaga cttcaaactt cggattcagc ctgctgcgaa 350
 agatctccat gaggcacgat ggcaacatgg tcttctctcc atttggcatg 400

P2730P1sequencelisting.txt

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gacatggctc agaaacatga aaaccagaaa catggaagtt ttctttccga 1100
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tggaattttt catttaatgt ttttgacca tggttgacca tggttaactg 2000
agactgcaga aagcaaaacc atggataagg gaggactact acaaaaagcat 2050
taaattgata catatttttt aaaaaaaaaa aaaaaaaaaa 2089

P2730P1sequencelisting.txt

<210> 410
 <211> 444
 <212> PRT
 <213> Homo sapiens

<400> 410
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 20 25 30
 Thr Pro Ala Pro Gln Asn Gln Thr Ser Arg Val Val Gln Ala Pro
 35 40 45
 Arg Glu Glu Glu Glu Asp Glu Gln Glu Ala Ser Glu Glu Lys Ala
 50 55 60
 Gly Glu Glu Glu Lys Ala Trp Leu Met Ala Ser Arg Gln Gln Leu
 65 70 75
 Ala Lys Glu Thr Ser Asn Phe Gly Phe Ser Leu Leu Arg Lys Ile
 80 85 90
 Ser Met Arg His Asp Gly Asn Met Val Phe Ser Pro Phe Gly Met
 95 100 105
 Ser Leu Ala Met Thr Gly Leu Met Leu Gly Ala Thr Gly Pro Thr
 110 115 120
 Glu Thr Gln Ile Lys Arg Gly Leu His Leu Gln Ala Leu Lys Pro
 125 130 135
 Thr Lys Pro Gly Leu Leu Pro Ser Leu Phe Lys Gly Leu Arg Glu
 140 145 150
 Thr Leu Ser Arg Asn Leu Glu Leu Gly Leu Ser Gln Gly Ser Phe
 155 160 165
 Ala Phe Ile His Lys Asp Phe Asp Val Lys Glu Thr Phe Phe Asn
 170 175 180
 Leu Ser Lys Arg Tyr Phe Asp Thr Glu Cys Val Pro Met Asn Phe
 185 190 195
 Arg Asn Ala Ser Gln Ala Lys Arg Leu Met Asn His Tyr Ile Asn
 200 205 210
 Lys Glu Thr Arg Gly Lys Ile Pro Lys Leu Phe Asp Glu Ile Asn
 215 220 225
 Pro Glu Thr Lys Leu Ile Leu Val Asp Tyr Ile Leu Phe Lys Gly
 230 235 240
 Lys Trp Leu Thr Pro Phe Asp Pro Val Phe Thr Glu Val Asp Thr
 245 250 255
 Phe His Leu Asp Lys Tyr Lys Thr Ile Lys Val Pro Met Met Tyr
 260 265 270
 Gly Ala Gly Lys Phe Ala Ser Thr Phe Asp Lys Asn Phe Arg Cys
 275 280 285
 His Val Leu Lys Leu Pro Tyr Gln Gly Asn Ala Thr Met Leu Val
 290 295 300
 Val Leu Met Glu Lys Met Gly Asp His Leu Ala Leu Glu Asp Tyr
 305 310 315

P2730P1sequencelisting.txt

Leu Thr Thr Asp Leu Val Glu Thr Trp Leu Arg Asn Met Lys Thr
 320 325 330
 Arg Asn Met Glu Val Phe Phe Pro Lys Phe Lys Leu Asp Gln Lys
 335 340 345
 Tyr Glu Met His Glu Leu Leu Arg Gln Met Gly Ile Arg Arg Ile
 350 355 360
 Phe Ser Pro Phe Ala Asp Leu Ser Glu Leu Ser Ala Thr Gly Arg
 365 370 375
 Asn Leu Gln Val Ser Arg Val Leu Arg Arg Thr Val Ile Glu Val
 380 385 390
 Asp Glu Arg Gly Thr Glu Ala Val Ala Gly Ile Leu Ser Glu Ile
 395 400 405
 Thr Ala Tyr Ser Met Pro Pro Val Ile Lys Val Asp Arg Pro Phe
 410 415 420
 His Phe Met Ile Tyr Glu Glu Thr Ser Gly Met Leu Leu Phe Leu
 425 430 435
 Gly Arg Val Val Asn Pro Thr Leu Leu
 440

<210> 411
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 411
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 tgtgggaggc aggtgcagtc ccagcaccca aggtccctat caagatgcaa 150
 gtcaaacact ggccctcaga gcaggacca gagaaggcct ggggcgcccg 200
 tgtggtggag cctccggaga aggacgacca gctggtggtg ctgttccttg 250
 tccagaagcc gaaactcttg accaccgagg agaagccacg aggtcagggc 300
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 cctgggcccgt gtcctgagtc ccgagcccga ccatgacagc ctgtaccacc 400
 ctccgcctga ggaggaccag ggcgaggaga ggccccggtt gtgggtgatg 450
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 aataaacccc agcaggcaaa aaaaaaaaaa aaaaaa 636

<210> 412
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 412
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 1 5 10 15

P2730P1sequence1isting.txt

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			20						25					30
Gln	Val	Lys	His	Trp	Pro	Ser	Glu	Gln	Asp	Pro	Glu	Lys	Ala	Trp
			35						40					45
Gly	Ala	Arg	Val	Val	Glu	Pro	Pro	Glu	Lys	Asp	Asp	Gln	Leu	Val
			50						55					60
Val	Leu	Phe	Pro	Val	Gln	Lys	Pro	Lys	Leu	Leu	Thr	Thr	Glu	Glu
			65						70					75
Lys	Pro	Arg	Gly	Gln	Gly	Arg	Gly	Pro	Ile	Leu	Pro	Gly	Thr	Lys
			80						85					90
Ala	Trp	Met	Glu	Thr	Glu	Asp	Thr	Leu	Gly	Arg	Val	Leu	Ser	Pro
			95						100					105
Glu	Pro	Asp	His	Asp	Ser	Leu	Tyr	His	Pro	Pro	Pro	Glu	Glu	Asp
			110						115					120
Gln	Gly	Glu	Glu	Arg	Pro	Arg	Leu	Trp	Val	Met	Pro	Asn	His	Gln
			125						130					135
Val	Leu	Leu	Gly	Pro	Glu	Glu	Asp	Gln	Asp	His	Ile	Tyr	His	Pro
			140						145					150

Gln

<210> 413
 <211> 1176
 <212> DNA
 <213> Homo sapiens

<400> 413
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 tggagtacag atgaggctaa tacttacttc aaggaatgga cctgttcttc 200
 gtctccatct ctgcccagaa gctgcaagga aatcaaagac gaatgtccta 250
 gtgcatttga tggcctgtat tttctccgca ctgagaatgg tgttatctac 300
 cagaccttct gtgacatgac ctctgggggt ggcggctgga ccctggtggc 350
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 ggtccagtca gcagggcagc aaagcagact acccagaggg ggacggcaac 450
 tgggccaact acaacacctt tggatctgca gaggcggcca cgagcgatga 500
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 ggcacgtgcc caataagtcc cccatgcagc actggagaaa cagctccctg 600
 ctgaggtacc gcacggacac tggcttctc cagacactgg gacataatct 650
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P2730P1sequencelisting.txt

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<210> 414

<211> 313

<212> PRT

<213> Homo sapiens

<400> 414

Met	Asn	Gln	Leu	Ser	Phe	Leu	Leu	Phe	Leu	Ile	Ala	Thr	Thr	Arg	1	5	10	15
Gly	Trp	Ser	Thr	Asp	Glu	Ala	Asn	Thr	Tyr	Phe	Lys	Glu	Trp	Thr	20	25	30	
Cys	Ser	Ser	Ser	Pro	Ser	Leu	Pro	Arg	Ser	Cys	Lys	Glu	Ile	Lys	35	40	45	
Asp	Glu	Cys	Pro	Ser	Ala	Phe	Asp	Gly	Leu	Tyr	Phe	Leu	Arg	Thr	50	55	60	
Glu	Asn	Gly	Val	Ile	Tyr	Gln	Thr	Phe	Cys	Asp	Met	Thr	Ser	Gly	65	70	75	
Gly	Gly	Gly	Trp	Thr	Leu	Val	Ala	Ser	Val	His	Glu	Asn	Asp	Met	80	85	90	
Arg	Gly	Lys	Cys	Thr	Val	Gly	Asp	Arg	Trp	Ser	Ser	Gln	Gln	Gly	95	100	105	
Ser	Lys	Ala	Asp	Tyr	Pro	Glu	Gly	Asp	Gly	Asn	Trp	Ala	Asn	Tyr	110	115	120	
Asn	Thr	Phe	Gly	Ser	Ala	Glu	Ala	Ala	Thr	Ser	Asp	Asp	Tyr	Lys	125	130	135	
Asn	Pro	Gly	Tyr	Tyr	Asp	Ile	Gln	Ala	Lys	Asp	Leu	Gly	Ile	Trp	140	145	150	
His	Val	Pro	Asn	Lys	Ser	Pro	Met	Gln	His	Trp	Arg	Asn	Ser	Ser	155	160	165	
Leu	Leu	Arg	Tyr	Arg	Thr	Asp	Thr	Gly	Phe	Leu	Gln	Thr	Leu	Gly	170	175	180	
His	Asn	Leu	Phe	Gly	Ile	Tyr	Gln	Lys	Tyr	Pro	Val	Lys	Tyr	Gly	185	190	195	
Glu	Gly	Lys	Cys	Trp	Thr	Asp	Asn	Gly	Pro	Val	Ile	Pro	Val	Val	200	205	210	
Tyr	Asp	Phe	Gly	Asp	Ala	Gln	Lys	Thr	Ala	Ser	Tyr	Tyr	Ser	Pro	215	220	225	

P2730P1sequencelisting.txt

Tyr Gly Gln Arg Glu Phe Thr Ala Gly Phe Val Gln Phe Arg Val
 230 235 240
 Phe Asn Asn Glu Arg Ala Ala Asn Ala Leu Cys Ala Gly Met Arg
 245 250 255
 Val Thr Gly Cys Asn Thr Glu His His Cys Ile Gly Gly Gly Gly
 260 265 270
 Tyr Phe Pro Glu Ala Ser Pro Gln Gln Cys Gly Asp Phe Ser Gly
 275 280 285
 Phe Asp Trp Ser Gly Tyr Gly Thr His Val Gly Tyr Ser Ser Ser
 290 295 300
 Arg Glu Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr Arg
 305 310

<210> 415

<211> 1281

<212> DNA

<213> Homo sapiens

<400> 415

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 ctagcgctgc tgggggccgc ccatgaaagc gcagccatgg cggcatctgc 200
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 aacatgatgc catcatttaa ggaaatccat ggaccaagga tggaatacag 750
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 gtattacgta aatatgtaaa gattcttcaa ggtaacaagg gtttgggttt 900
 tgaaataaac atctggatct tatagaccgt tcatacaatg gttttagcaa 950
 gttcatagta agacaaacaa gtcctatctt ttttttttgg ctggggtggg 1000
 ggcattgggt acatatgacc agtaattgaa agacgtcatc actgaaagac 1050
 agaatgccat ctgggcatac aaataagaag tttgtcacag cactcaggat 1100

P2730P1sequencelisting.txt

tttgggtatc tttttagtct cacataaaga acttcagtgc ttttcagagc 1150
 tggatatatc ttaattacta atgccacaca gaaattatac aatcaaacta 1200
 gatctgaagc ataatttaag aaaaacatca acattttttg tgcttttaaac 1250
 tgtagtagtt ggtctagaaa caaaatactc c 1281

<210> 416
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 416
 Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly 15
 1 5 10
 Thr Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala 30
 20 25 30
 Ala Met Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His 45
 35 40 45
 Asn Ser Ser Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser 60
 50 55 60
 Asp His Thr Asn Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr 75
 65 70 75
 Ser Val Ala Ser Asp Ser Ser Asn Thr Thr Val Thr Thr Met Lys 90
 80 85 90
 Pro Thr Ala Ala Ser Asn Thr Thr Thr Pro Gly Met Val Ser Thr 105
 95 100 105
 Asn Met Thr Ser Thr Thr Leu Lys Ser Thr Pro Lys Thr Thr Ser 120
 110 115 120
 Val Ser Gln Asn Thr Ser Gln Ile Ser Thr Ser Thr Met Thr Val 135
 125 130 135
 Thr His Asn Ser Ser Val Thr Ser Ala Ala Ser Ser Val Thr Ile 150
 140 145 150
 Thr Thr Thr Met His Ser Glu Ala Lys Lys Gly Ser Lys Phe Asp 165
 155 160 165
 Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr Leu Gly Val Leu 180
 170 175 180
 Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser Arg Arg Gly 195
 185 190 195
 Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile 205
 200 205

<210> 417
 <211> 1728
 <212> DNA
 <213> Homo sapiens

<400> 417
 cagccgggtc ccaagcctgt gcctgagcct gagcctgagc ctgagcccga 50
 gccgggagcc ggctcgcgggg gctccgggct gtgggaccgc tgggccccca 100
 gcgatggcga ccctgtgggg aggccttctt cggcttggtc ccttgctcag 150

P2730P1sequencelisting.txt

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cctgtcgtgc ctggcgcttt ccgtgctgct gctggcgag ctgtcagacg 200
ccgccaagaa tttcgaggat gtcagatgta aatgtatctg ccctccctat 250
aaagaaaatt ctgggcatat ttataataag aacatctctc agaaagattg 300
tgattgcctt catgttgttg agcccatgcc tgtgcggggg cctgatgtag 350
aagcatactg tctacgctgt gaatgcaa atgaagaaag aagctctgtc 400
acaatcaagg ttaccattat aatttctctc tccatttttg gccttctact 450
tctgtacatg gtatatctta ctctggttga gcccatactg aagaggcgcc 500
tctttggaca tgcacagttg atacagagtg atgatgatat tggggatcac 550
cagccttttg caaatgcaca cgatgtgcta gcccgtccc gcagtcgagc 600
caacgtgctg aacaaggtag aatatgcaca gcagcgctgg aagcttcaag 650
tccaagagca gcgaaagtct gtctttgacc ggcatgttgt cctcagctaa 700
ttgggaattg aattcaagg gactagaaag aaacaggcag acaactggaa 750
agaactgact gggttttgct gggtttcatt ttaatacctt gttgatttca 800
ccaactgttg ctggaagatt caaaactgga agcaaaaact tgcttgattt 850
ttttttcttg ttaacgta atagagaca tttttaaag cacacagctc 900
aaagtcagcc aataagtctt ttcctatttg tgacttttac taataaaaat 950
aatctgcct gtaaattatc ttgaagtcct ttacctgga caagcactct 1000
ctttttcacc acatagtttt aacttgactt tcaagataat tttcagggtt 1050
tttgttgttg ttgttttttg tttgtttgtt ttggtgggag aggggagggg 1100
tgcctgggaa gtggttaaca acttttttca agtcacttta ctaaacaac 1150
ttttgtaa atagacctacc ttctattttc gagtttcatt tatattttgc 1200
agtgtagcca gcctcatcaa agagctgact tactcatttg acttttgcac 1250
tgactgtatt atctgggtat ctgctgtgtc tgcacttcat ggtaaacggg 1300
atctaaaatg cctggtggct tttcacaaaa agcagatttt cttcatgtac 1350
tgtgatgtct gatgcaatgc atcctagaac aaactggcca tttgctagtt 1400
tactctaaag actaaacata gtcttggtgt gtgtggtctt actcatcttc 1450
tagtaccttt aaggacaaat cctaaggact tggacacttg caataaagaa 1500
attttatttt aaaccaagc ctccctggat tgataatata tacacatttg 1550
tcagcatttc cggtcgtggt gagaggcagc tgtttgagct ccaatatgtg 1600
cagctttgaa ctagggctgg ggttgtgggt gcctcttctg aaaggtctaa 1650
ccattatttg ataactggct tttttcttcc tatgtcctct ttggaatgta 1700
acaataaaaa taatttttga aacatcaa 1728

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<210> 418
 <211> 198
 <212> PRT
 <213> Homo sapiens

P2730P1sequencelisting.txt

<400> 418

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Met Ala Thr Leu Trp Gly Gly Leu Leu Arg Leu Gly Ser Leu Leu
 1          5          10          15
Ser Leu Ser Cys Leu Ala Leu Ser Val Leu Leu Leu Ala Gln Leu
          20          25          30
Ser Asp Ala Ala Lys Asn Phe Glu Asp Val Arg Cys Lys Cys Ile
          35          40          45
Cys Pro Pro Tyr Lys Glu Asn Ser Gly His Ile Tyr Asn Lys Asn
          50          55          60
Ile Ser Gln Lys Asp Cys Asp Cys Leu His Val Val Glu Pro Met
          65          70          75
Pro Val Arg Gly Pro Asp Val Glu Ala Tyr Cys Leu Arg Cys Glu
          80          85          90
Cys Lys Tyr Glu Glu Arg Ser Ser Val Thr Ile Lys Val Thr Ile
          95          100          105
Ile Ile Tyr Leu Ser Ile Leu Gly Leu Leu Leu Leu Tyr Met Val
          110          115          120
Tyr Leu Thr Leu Val Glu Pro Ile Leu Lys Arg Arg Leu Phe Gly
          125          130          135
His Ala Gln Leu Ile Gln Ser Asp Asp Asp Ile Gly Asp His Gln
          140          145          150
Pro Phe Ala Asn Ala His Asp Val Leu Ala Arg Ser Arg Ser Arg
          155          160          165
Ala Asn Val Leu Asn Lys Val Glu Tyr Ala Gln Gln Arg Trp Lys
          170          175          180
Leu Gln Val Gln Glu Gln Arg Lys Ser Val Phe Asp Arg His Val
          185          190          195

Val Leu Ser

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<210> 419

<211> 681

<212> DNA

<213> Homo sapiens

<400> 419

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gcacctgcga ccaccgtgag cagtcattggc gtactccaca gtgcagagag 50
tcgctctggc ttctgggctt gtcctggctc tgctcgctgct gctgccaag 100
gccttcctgt cccgcgggaa gcggcaggag ccgccgccga cacctgaagg 150
aaaattgggc cgatttccac ctatgatgca tcatcaccag gcaccctcag 200
atggccagac tcctggggct cgtttcaga ggtctcacct tgccgaggca 250
tttgcaaagg ccaaaggatc aggtggagggt gctggaggag gaggtagtgg 300
aagaggctctg atggggcaga ttattccaat ctacggtttt gggatttttt 350
tatatatact gtacattcta tttaaggtaa gtagaatcat cctaatacata 400
ttacatcaat gaaaatctaa tatggcgata aaaatcattg tctacattaa 450

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P2730P1sequencelisting.txt

aactttcttat agttcataaa attattttcaa atccatcatc tctttaaatc 500
 ctgcctcctc ttcattgaggt acttaggata gccattattt cagtttcaca 550
 taagaatggt tactcaatgt ttaagtgttt tgcccaaaa ttcacaacta 600
 acaaggcaga actaggactt gaacatggat cttttggttc ttaatccagt 650
 gagtgatata attcaatgca ctcccctgcc a 681

<210> 420
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 420
 Met Ala Tyr Ser Thr Val Gln Arg Val Ala Leu Ala Ser Gly Leu
 1 5 10 15
 Val Leu Ala Leu Ser Leu Leu Leu Pro Lys Ala Phe Leu Ser Arg
 20 25 30
 Gly Lys Arg Gln Glu Pro Pro Pro Thr Pro Glu Gly Lys Leu Gly
 35 40 45
 Arg Phe Pro Pro Met Met His His His Gln Ala Pro Ser Asp Gly
 50 55 60
 Gln Thr Pro Gly Ala Arg Phe Gln Arg Ser His Leu Ala Glu Ala
 65 70 75
 Phe Ala Lys Ala Lys Gly Ser Gly Gly Gly Ala Gly Gly Gly Gly
 80 85 90
 Ser Gly Arg Gly Leu Met Gly Gln Ile Ile Pro Ile Tyr Gly Phe
 95 100 105
 Gly Ile Phe Leu Tyr Ile Leu Tyr Ile Leu Phe Lys Val Ser Arg
 110 115 120
 Ile Ile Leu Ile Ile Leu His Gln
 125

<210> 421
 <211> 1630
 <212> DNA
 <213> Homo sapiens

<400> 421
 cggctcgagt gcagctgtgg ggagatttca gtgcattgcc tcccctgggt 50
 gctcttcatac ttggatttga aagttgagag cagcatgttt tgcccactga 100
 aactcatcct gctgccagtg ttactggatt attccttggg cctgaatgac 150
 ttgaatgttt ccccgctga gctaacagtc catgtgggtg attcagctct 200
 gatgggatgt gttttccaga gcacagaaga caaatgtata ttcaagatag 250
 actggactct gtcaccagga gagcacgcca aggacgaata tgtgctatac 300
 tattactcca atctcagtgt gcctattggg cgcttcaga accgcgtaca 350
 cttgatgggg gacatcttat gcaatgatgg ctctctcctg ctccaagatg 400
 tgcaagaggc tgaccagga acctatatct gtgaaatccg cctcaaaggg 450
 gagagccagg tgttcaagaa ggcggtggtg ctgcatgtgc ttccagagga 500

P2730P1sequencelisting.txt

gcccaaagag ctcatggtcc atgtgggtgg attgattcag atgggatgtg 550
 ttttccagag cacagaagtg aaacacgtga ccaaggtaga atggatattt 600
 tcaggacggc gcgcaaagga ggagattgta tttcgttact accacaaact 650
 caggatgtct gtggagtact cccagagctg gggccacttc cagaatcgtg 700
 tgaacctggt gggggacatt ttccgcaatg acggttccat catgcttcaa 750
 ggagtgaggg agtcagatgg aggaaactac acctgcagta tccacctagg 800
 gaacctggtg ttcaagaaaa ccattgtgct gcatgtcagc ccggaagagc 850
 ctcgaacact ggtgaccccc gcagccctga ggcctctggt cttgggtggt 900
 aatcagttgg tgatcattgt ggaattgtc tgtgccacaa tcctgctgct 950
 ccctgttctg atattgatcg tgaagaagac ctgtggaaat aagagttcag 1000
 tgaattctac agtcttggtg aagaacacga agaagactaa tccagagata 1050
 aaagaaaaac cctgccattt tgaaagatgt gaaggggaga aacacattta 1100
 ctccccaata attgtacggg aggtgatcga ggaagaagaa ccaagtgaag 1150
 aatcagaggc cacctacatg accatgcacc cagtttggcc ttctctgagg 1200
 tcagatcgga acaactcact tgaaaaaaag tcaggtgggg gaatgccaaa 1250
 aacacagcaa gccttttgag aagaatggag agtcccttca tctcagcagc 1300
 ggtggagact ctctcctgtg tgtgtcctgg gccactctac cagtgatttc 1350
 agactccgc tctccagct gtcctcctgt ctattgttt ggtcaataca 1400
 ctgaagatgg agaatttgga gcctggcaga gagactggac agctctggag 1450
 gaacaggcct gctgagggga ggggagcatg gacttggcct ctggagtggg 1500
 aactggccc tgggaaccag gctgagctga gtggcctcaa acccccgtt 1550
 ggatcagacc ctctgtggg cagggttctt agtggatgag ttactgggaa 1600
 gaatcagaga taaaaccaa cccaaatcaa 1630

<210> 422

<211> 394

<212> PRT

<213> Homo sapiens

<400> 422

Met	Phe	Cys	Pro	Leu	Lys	Leu	Ile	Leu	Leu	Pro	Val	Leu	Leu	Asp
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Tyr	Ser	Leu	Gly	Leu	Asn	Asp	Leu	Asn	Val	Ser	Pro	Pro	Glu	Leu
				20				25						30
Thr	Val	His	Val	Gly	Asp	Ser	Ala	Leu	Met	Gly	Cys	Val	Phe	Gln
				35				40						45
Ser	Thr	Glu	Asp	Lys	Cys	Ile	Phe	Lys	Ile	Asp	Trp	Thr	Leu	Ser
				50				55						60
Pro	Gly	Glu	His	Ala	Lys	Asp	Glu	Tyr	Val	Leu	Tyr	Tyr	Tyr	Ser
				65				70						75

P2730P1sequencelisting.txt

Asn	Leu	Ser	Val	Pro	Ile	Gly	Arg	Phe	Gln	Asn	Arg	Val	His	Leu
				80					85					90
Met	Gly	Asp	Ile	Leu	Cys	Asn	Asp	Gly	Ser	Leu	Leu	Leu	Gln	Asp
				95					100					105
Val	Gln	Glu	Ala	Asp	Gln	Gly	Thr	Tyr	Ile	Cys	Glu	Ile	Arg	Leu
				110					115					120
Lys	Gly	Glu	Ser	Gln	Val	Phe	Lys	Lys	Ala	Val	Val	Leu	His	Val
				125					130					135
Leu	Pro	Glu	Glu	Pro	Lys	Glu	Leu	Met	Val	His	Val	Gly	Gly	Leu
				140					145					150
Ile	Gln	Met	Gly	Cys	Val	Phe	Gln	Ser	Thr	Glu	Val	Lys	His	Val
				155					160					165
Thr	Lys	Val	Glu	Trp	Ile	Phe	Ser	Gly	Arg	Arg	Ala	Lys	Glu	Glu
				170					175					180
Ile	Val	Phe	Arg	Tyr	Tyr	His	Lys	Leu	Arg	Met	Ser	Val	Glu	Tyr
				185					190					195
Ser	Gln	Ser	Trp	Gly	His	Phe	Gln	Asn	Arg	Val	Asn	Leu	Val	Gly
				200					205					210
Asp	Ile	Phe	Arg	Asn	Asp	Gly	Ser	Ile	Met	Leu	Gln	Gly	Val	Arg
				215					220					225
Glu	Ser	Asp	Gly	Gly	Asn	Tyr	Thr	Cys	Ser	Ile	His	Leu	Gly	Asn
				230					235					240
Leu	Val	Phe	Lys	Lys	Thr	Ile	Val	Leu	His	Val	Ser	Pro	Glu	Glu
				245					250					255
Pro	Arg	Thr	Leu	Val	Thr	Pro	Ala	Ala	Leu	Arg	Pro	Leu	Val	Leu
				260					265					270
Gly	Gly	Asn	Gln	Leu	Val	Ile	Ile	Val	Gly	Ile	Val	Cys	Ala	Thr
				275					280					285
Ile	Leu	Leu	Leu	Pro	Val	Leu	Ile	Leu	Ile	Val	Lys	Lys	Thr	Cys
				290					295					300
Gly	Asn	Lys	Ser	Ser	Val	Asn	Ser	Thr	Val	Leu	Val	Lys	Asn	Thr
				305					310					315
Lys	Lys	Thr	Asn	Pro	Glu	Ile	Lys	Glu	Lys	Pro	Cys	His	Phe	Glu
				320					325					330
Arg	Cys	Glu	Gly	Glu	Lys	His	Ile	Tyr	Ser	Pro	Ile	Ile	Val	Arg
				335					340					345
Glu	Val	Ile	Glu	Glu	Glu	Glu	Pro	Ser	Glu	Lys	Ser	Glu	Ala	Thr
				350					355					360
Tyr	Met	Thr	Met	His	Pro	Val	Trp	Pro	Ser	Leu	Arg	Ser	Asp	Arg
				365					370					375
Asn	Asn	Ser	Leu	Glu	Lys	Lys	Ser	Gly	Gly	Gly	Met	Pro	Lys	Thr
				380					385					390
Gln	Gln	Ala	Phe											

<210> 423

<211> 963

P2730P1sequencelisting.txt

<212> DNA

<213> Homo sapiens

<400> 423

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ccatctcaca tggttctacc ctactaaaga caggaagatc ataaactgac 100
agatactgaa attgtaagag ttggaaacta cattttgcaa agtcattgaa 150
ctctgagctc agttgcagta ctcgggaagc catgcaggat gaagatggat 200
acatcacctt aaatattaaa actcggaaac cagctctcgt ctccgttggc 250
cctgcatcct cctcctggtg gcgtgtgatg gctttgattc tgctgaccc 300
gtgcgtgggg atggttgtcg ggctggtggc tctggggatt tggctctgtca 350
tgcagcgcaa ttacctacaa gatgagaatg aaaatcgcac aggaactctg 400
caacaattag caaagcgctt ctgtcaatat gtggtaaaac aatcagaact 450
aaagggcact ttcaaagggtc ataaatgcag cccctgtgac acaaactgga 500
gatattatgg agatagctgc tatgggttct tcaggcacia cttaacatgg 550
gaagagagta agcagtactg cactgacatg aatgctactc tcctgaagat 600
tgacaaccgg aacattgtgg agtacatcaa agccaggact catttaattc 650
gttgggtcgg attatctcgc cagaagtcga atgaggtctg gaagtgggag 700
gatggctcgg ttatctcaga aaatatgttt gagtttttgg aagatggaaa 750
aggaaatatg aattgtgctt attttcataa tgggaaaatg caccctacct 800
tctgtgagaa caaacattat ttaatgtgtg agaggaaggc tggcatgacc 850
aaggtggacc aactacctta atgcaaagag gtggacagga taacacagat 900
aagggtctta ttgtacaata aaagatatgt atgaatgcat cagtagctga 950
aaaaaaaaaa aaa 963

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<210> 424

<211> 229

<212> PRT

<213> Homo sapiens

<400> 424

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Met Gln Asp Glu Asp Gly Tyr Ile Thr Leu Asn Ile Lys Thr Arg
 1          5          10          15
Lys Pro Ala Leu Val Ser Val Gly Pro Ala Ser Ser Ser Trp Trp
          20          25          30
Arg Val Met Ala Leu Ile Leu Leu Ile Leu Cys Val Gly Met Val
          35          40          45
Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val Met Gln Arg Asn
          50          55          60
Tyr Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr Leu Gln Gln
          65          70          75
Leu Ala Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser Glu Leu
          80          85          90

```

P2730P1sequencelisting.txt

Lys Gly Thr Phe	Lys Gly His Lys Cys	Ser Pro Cys Asp Thr	Asn
95	100		105
Trp Arg Tyr Tyr	Gly Asp Ser Cys Tyr	Gly Phe Phe Arg His	Asn
110	115		120
Leu Thr Trp Glu	Glu Ser Lys Gln Tyr	Cys Thr Asp Met Asn	Ala
125	130		135
Thr Leu Leu Lys	Ile Asp Asn Arg Asn	Ile Val Glu Tyr Ile	Lys
140	145		150
Ala Arg Thr His	Leu Ile Arg Trp Val	Gly Leu Ser Arg Gln	Lys
155	160		165
Ser Asn Glu Val	Trp Lys Trp Glu Asp	Gly Ser Val Ile Ser	Glu
170	175		180
Asn Met Phe Glu	Phe Leu Glu Asp Gly	Lys Gly Asn Met Asn	Cys
185	190		195
Ala Tyr Phe His	Asn Gly Lys Met His	Pro Thr Phe Cys Glu	Asn
200	205		210
Lys His Tyr Leu	Met Cys Glu Arg Lys	Ala Gly Met Thr Lys	Val
215	220		225

Asp Gln Leu Pro

<210> 425
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 425
 tgcagcccct gtgacacaaa ctgg 24

<210> 426
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 426
 ctgagataac cgagccatcc tcccac 26

<210> 427
 <211> 49
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 427
 gcttcctgac actaaggctg tctgctagtc agaattgcct caaaaagag 49

<210> 428
 <211> 21
 <212> DNA
 <213> Artificial Sequence

P2730P1sequencelisting.txt

<220>
<223> Synthetic oligonucleotide probe

<400> 428
ccaccaatgg cagccccacc t 21

<210> 429
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 429
gactgccctc cctgcca 17

<210> 430
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 430
caaaaagcct ggaagtcctc aaag 24

<210> 431
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 431
cagctggact gcaggtgcta 20

<210> 432
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 432
cagtgcac agcaagtgtc ct 22

<210> 433
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 433
ggccacctcc ttgagtcttc agttccct 28

<210> 434
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

P2730P1sequencelisting.txt

<400> 434
caactactgg ctaaagctgg tgaa 24

<210> 435
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 435
cctttctgta taggtgatac ccaatga 27

<210> 436
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 436
tgcccatccc taccagaggc aaaa 24

<210> 437
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 437
ctgaagacga cgcggattac ta 22

<210> 438
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 438
ggcagaaatg ggaggcaga 19

<210> 439
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 439
tgctctgttg gctacggctt tagtccctag 30

<210> 440
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 440

agcagcagcc atgtagaatg aa 22

<210> 441

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 441

aatacgaaca gtgcacgctg at 22

<210> 442

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 442

tccagagagc caagcacggc aga 23

<210> 443

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 443

tctagccagc ttggctccaa ta 22

<210> 444

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 444

cctggctcta gcaccaactc ata 23

<210> 445

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 445

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<210> 446

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 446

caggatacag tgggaatctt gaga 24

<210> 447
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 447
 cctgaagggc ttggagctta gt 22

<210> 448
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 448
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<210> 449
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 449
 cccatggcga ggaggaat 18

<210> 450
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 450
 tgcgtacgtg tgccttcag 19

<210> 451
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 451
 cagcacccca ggcagtctgt gtgt 24

<210> 452
 <211> 24
 <212> DNA
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<400> 493

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<211> 1231

<212> DNA

<213> Homo Sapien

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cagcccgcgc gggagccgga ccgccgccgg aggagctcgg acggcatgct 150

gagccccctc ctttgctgaa gcccgagtgc ggagaagccc gggcaaacgc 200

aggctaagga gaccaaagcg gcgaagtcgc gagacagcgg acaagcagcg 250

gaggagaagg aggaggaggc gaaccagag aggggcagca aaagaagcgg 300

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cgtcagaaga ggcaagcccc cgagcgcgag aaatccaacg cctgcaagtg 400

tgtcagcagc cccagcaaag gcaagaccag ctgcgacaaa aacaagttaa 450

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<212> PRT

<213> Homo Sapien

<400> 495

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Phe	Ser	Arg	Val	Lys	Leu	Phe	Gly	Ser	Lys	Lys	Arg	Arg	Arg	Arg
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Arg	Pro	Glu	Pro	Gln	Leu	Lys	Gly	Ile	Val	Thr	Lys	Leu	Tyr	Ser
				65					70					75
Arg	Gln	Gly	Tyr	His	Leu	Gln	Leu	Gln	Ala	Asp	Gly	Thr	Ile	Asp
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Pro	Val	Gly	Leu	Arg	Val	Val	Ala	Ile	Gln	Gly	Val	Gln	Thr	Lys
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Leu	Phe	Thr	Pro	Glu	Cys	Lys	Phe	Lys	Glu	Ser	Val	Phe	Glu	Asn
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Tyr	Tyr	Val	Thr	Tyr	Ser	Ser	Met	Ile	Tyr	Arg	Gln	Gln	Gln	Ser
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P2730P1sequencelisting.txt

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Pro	Lys	Pro	Leu	Lys	Val	Ala	Met	Tyr	Lys	Glu	Pro	Ser	Leu	His
				200					205					210
Asp	Leu	Thr	Glu	Phe	Ser	Arg	Ser	Gly	Ser	Gly	Thr	Pro	Thr	Lys
				215					220					225
Ser	Arg	Ser	Val	Ser	Gly	Val	Leu	Asn	Gly	Gly	Lys	Ser	Met	Ser
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His	Asn	Glu	Ser	Thr										
				245										

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 tgggggggatt tcagtgaaaa aagtggggga tcccctccat ttagagtgtg 200
 gcaaaggaaa aaacaccaag gttgggttcc ttcctgacat tggcagtgcc 250
 ccagtagggg tgggatgagc gaatattccc aaagctaaag tcccacaccc 300
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Cys Pro Arg Gly Thr Lys Ser Leu Cys Gln Lys Gln Leu Leu Ile
35 40 45
Leu Leu Ser Lys Val Arg Leu Cys Gly Gly Arg Pro Ala Arg Pro
50 55 60
Asp Arg Gly Pro Glu Pro Gln Leu Lys Gly Ile Val Thr Lys Leu
65 70 75
Phe Cys Arg Gln Gly Phe Tyr Leu Gln Ala Asn Pro Asp Gly Ser
80 85 90
Ile Gln Gly Thr Pro Glu Asp Thr Ser Ser Phe Thr His Phe Asn
95 100 105
Leu Ile Pro Val Gly Leu Arg Val Val Thr Ile Gln Ser Ala Lys
110 115 120
Leu Gly His Tyr Met Ala Met Asn Ala Glu Gly Leu Leu Tyr Ser
125 130 135
Ser Pro His Phe Thr Ala Glu Cys Arg Phe Lys Glu Cys Val Phe
140 145 150
Glu Asn Tyr Tyr Val Leu Tyr Ala Ser Ala Leu Tyr Arg Gln Arg
155 160 165
Arg Ser Gly Arg Ala Trp Tyr Leu Gly Leu Asp Lys Glu Gly Gln
170 175 180
Val Met Lys Gly Asn Arg Val Lys Lys Thr Lys Ala Ala Ala His
185 190 195
Phe Leu Pro Lys Leu Leu Glu Val Ala Met Tyr Gln Glu Pro Ser
200 205 210
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215 220 225

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Ser Ser Pro Ser Lys Asn Arg Gly Leu Cys Asn Gly Asn Leu Val
35 40 45
Asp Ile Phe Ser Lys Val Arg Ile Phe Gly Leu Lys Lys Arg Arg
50 55 60
Leu Arg Arg Gln Asp Pro Gln Leu Lys Gly Ile Val Thr Arg Leu
65 70 75
Tyr Cys Arg Gln Gly Tyr Tyr Leu Gln Met His Pro Asp Gly Ala
80 85 90
Leu Asp Gly Thr Lys Asp Asp Ser Thr Asn Ser Thr Leu Phe Asn
95 100 105
Leu Ile Pro Val Gly Leu Arg Val Val Ala Ile Gln Gly Val Lys
110 115 120
Thr Gly Leu Tyr Ile Ala Met Asn Gly Glu Gly Tyr Leu Tyr Pro
125 130 135

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Ala	Met	Lys	Gly	Asn	Arg	Val	Lys	Lys	Thr	Lys	Pro	Ala	Ala	His
				185					190					195
Phe	Leu	Pro	Lys	Pro	Leu	Glu	Val	Ala	Met	Tyr	Arg	Glu	Pro	Ser
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Leu	His	Asp	Val	Gly	Glu	Thr	Val	Pro	Lys	Pro	Gly	Val	Thr	Pro
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Ser	Lys	Ser	Thr	Ser	Ala	Ser	Ala	Ile	Met	Asn	Gly	Gly	Lys	Pro
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P2730P1sequencelisting.txt

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 140 145 150
 Lys Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser
 155 160 165
 Tyr Ala Phe Asn Arg Ile Pro Ser Leu Arg Arg Leu Asp Leu Gly
 170 175 180
 Glu Leu Lys Arg Leu Ser Tyr Ile Ser Glu Gly Ala Phe Glu Gly
 185 190 195
 Leu Ser Asn Leu Arg Tyr Leu Asn Leu Ala Met Cys Asn Leu Arg
 200 205 210
 Glu Ile Pro Asn Leu Thr Pro Leu Ile Lys Leu Asp Glu Leu Asp
 215 220 225
 Leu Ser Gly Asn His Leu Ser Ala Ile Arg Pro Gly Ser Phe Gln
 230 235 240
 Gly Leu Met His Leu Gln Lys Leu Trp Met Ile Gln Ser Gln Ile
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P2730P1sequencelisting.txt

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Leu Phe Thr Pro	Leu 290	His His Leu Glu	Arg 295	Ile His Leu His	His 300
Asn Pro Trp Asn	Cys 305	Asn Cys Asp Ile	Leu 310	Trp Leu Ser Trp	Trp 315
Ile Lys Asp Met	Ala 320	Pro Ser Asn Thr	Ala 325	Cys Cys Ala Arg	Cys 330
Asn Thr Pro Pro	Asn 335	Leu Lys Gly Arg	Tyr 340	Ile Gly Glu Leu	Asp 345
Gln Asn Tyr Phe	Thr 350	Cys Tyr Ala Pro	Val 355	Ile Val Glu Pro	Pro 360
Ala Asp Leu Asn	Val 365	Thr Glu Gly Met	Ala 370	Ala Glu Leu Lys	Cys 375
Arg Ala Ser Thr	Ser 380	Leu Thr Ser Val	Ser 385	Trp Ile Thr Pro	Asn 390
Gly Thr Val Met	Thr 395	His Gly Ala Tyr	Lys 400	Val Arg Ile Ala	Val 405
Leu Ser Asp Gly	Thr 410	Leu Asn Phe Thr	Asn 415	Val Thr Val Gln	Asp 420
Thr Gly Met Tyr	Thr 425	Cys Met Val Ser	Asn 430	Ser Val Gly Asn	Thr 435
Thr Ala Ser Ala	Thr 440	Leu Asn Val Thr	Ala 445	Ala Thr Thr Thr	Pro 450
Phe Ser Tyr Phe	Ser 455	Thr Val Thr Val	Glu 460	Thr Met Glu Pro	Ser 465
Gln Asp Glu Ala	Arg 470	Thr Thr Asp Asn	Asn 475	Val Gly Pro Thr	Pro 480
Val Val Asp Trp	Glu 485	Thr Thr Asn Val	Thr 490	Thr Ser Leu Thr	Pro 495
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Asp Ile Asn Ser	Gly 515	Ile Pro Gly Ile	Asp 520	Glu Val Met Lys	Thr 525
Thr Lys Ile Ile	Ile 530	Gly Cys Phe Val	Ala 535	Ile Thr Leu Met	Ala 540
Ala Val Met Leu	Val 545	Ile Phe Tyr Lys	Met 550	Arg Lys Gln His	His 555
Arg Gln Asn His	His 560	Ala Pro Thr Arg	Thr 565	Val Glu Ile Ile	Asn 570
Val Asp Asp Glu	Ile 575	Thr Gly Asp Thr	Pro 580	Met Glu Ser His	Leu 585
Pro Met Pro Ala	Ile Glu His Glu His	Leu Asn His Tyr Asn	Ser		

P2730P1sequencelisting.txt

590

595

600

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<211> 2458

<212> DNA

<213> Homo Sapien

<400> 502

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P2730P1sequencelisting.txt

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 <212> PRT
 <213> Homo Sapien

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 Val Thr Leu Pro Cys His His Gln Leu Gly Leu Pro Glu Lys Asp
 35 40 45
 Thr Leu Asp Ile Glu Trp Leu Leu Thr Asp Asn Glu Gly Asn Gln
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 Lys Val Val Ile Thr Tyr Ser Ser Arg His Val Tyr Asn Asn Leu

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<212>	DNA
<213>	Homo Sapien

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P2730P1sequencelisting.txt

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P2730P1sequencelisting.txt

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<212> PRT
<213> Homo Sapien

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P2730P1sequencelisting.txt

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50 55 60

Pro Ala Asp Asn Gln Lys Val Asp Gln Val Ile Ile Leu Tyr Ser
65 70 75

Gly Asp Lys Ile Tyr Asp Asp Tyr Tyr Pro Asp Leu Lys Gly Arg
80 85 90

Val His Phe Thr Ser Asn Asp Leu Lys Ser Gly Asp Ala Ser Ile
95 100 105

Asn Val Thr Asn Leu Gln Leu Ser Asp Ile Gly Thr Tyr Gln Cys
110 115 120

Lys Val Lys Lys Ala Pro Gly Val Ala Asn Lys Lys Ile His Leu
125 130 135

Val Val Leu Val Lys Pro Ser Gly Ala Arg Cys Tyr Val Asp Gly
140 145 150

Ser Glu Glu Ile Gly Ser Asp Phe Lys Ile Lys Cys Glu Pro Lys
155 160 165

Glu Gly Ser Leu Pro Leu Gln Tyr Glu Trp Gln Lys Leu Ser Asp
170 175 180

Ser Gln Lys Met Pro Thr Ser Trp Leu Ala Glu Met Thr Ser Ser
185 190 195

Val Ile Ser Val Lys Asn Ala Ser Ser Glu Tyr Ser Gly Thr Tyr
200 205 210

Ser Cys Thr Val Arg Asn Arg Val Gly Ser Asp Gln Cys Leu Leu
215 220 225

Arg Leu Asn Val Val Pro Pro Ser Asn Lys Ala Gly Leu Ile Ala
230 235 240

Gly Ala Ile Ile Gly Thr Leu Leu Ala Leu Ala Leu Ile Gly Leu
245 250 255

Ile Ile Phe Cys Cys Arg Lys Lys Arg Arg Glu Glu Lys Tyr Glu
260 265 270

Lys Glu Val His His Asp Ile Arg Glu Asp Val Pro Pro Pro Lys
275 280 285

Ser Arg Thr Ser Thr Ala Arg Ser Tyr Ile Gly Ser Asn His Ser
290 295 300

Ser Leu Gly Ser Met Ser Pro Ser Asn Met Glu Gly Tyr Ser Lys
305 310 315

Thr Gln Tyr Asn Gln Val Pro Ser Glu Asp Phe Glu Arg Thr Pro
320 325 330

Gln Ser Pro Thr Leu Pro Pro Ala Lys Phe Lys Tyr Pro Tyr Lys
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Thr Asp Gly Ile Thr Val Val
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<210> 506

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P2730P1sequencelisting.txt

<212> DNA

<213> Homo Sapien

<400> 506

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P2730P1sequence1isting.txt

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<211> 206

<212> PRT

<213> Homo Sapien

<400> 507

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20 25 30

Val Val Leu Pro Cys Leu Gly Phe Thr Leu Leu Leu Trp Ser Gln
35 40 45

Val Ser Gly Ala Gln Gly Gln Glu Phe His Phe Gly Pro Cys Gln
50 55 60

Val Lys Gly Val Val Pro Gln Lys Leu Trp Glu Ala Phe Trp Ala
65 70 75

Val Lys Asp Thr Met Gln Ala Gln Asp Asn Ile Thr Ser Ala Arg
80 85 90

Leu Leu Gln Gln Glu Val Leu Gln Asn Val Ser Asp Ala Glu Ser
95 100 105

Cys Tyr Leu Val His Thr Leu Leu Glu Phe Tyr Leu Lys Thr Val
110 115 120

Phe Lys Asn His His Asn Arg Thr Val Glu Val Arg Thr Leu Lys
125 130 135

Ser Phe Ser Thr Leu Ala Asn Asn Phe Val Leu Ile Val Ser Gln
140 145 150

Leu Gln Pro Ser Gln Glu Asn Glu Met Phe Ser Ile Arg Asp Ser
155 160 165

Ala His Arg Arg Phe Leu Leu Phe Arg Arg Ala Phe Lys Gln Leu
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Asp Val Glu Ala Ala Leu Thr Lys Ala Leu Gly Glu Val Asp Ile
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Leu Leu Thr Trp Met Gln Lys Phe Tyr Lys Leu
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<210> 508

<211> 924

<212> DNA

<213> Homo Sapien

<400> 508

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P2730P1sequence1isting.txt

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 Ser Thr Asp Met His His Ile Glu Glu Ser Phe Gln Glu Ile Lys
 35 40 45
 Arg Ala Ile Gln Ala Lys Asp Thr Phe Pro Asn Val Thr Ile Leu
 50 55 60
 Ser Thr Leu Glu Thr Leu Gln Ile Ile Lys Pro Leu Asp Val Cys
 65 70 75
 Cys Val Thr Lys Asn Leu Leu Ala Phe Tyr Val Asp Arg Val Phe
 80 85 90
 Lys Asp His Gln Glu Pro Asn Pro Lys Ile Leu Arg Lys Ile Ser
 95 100 105
 Ser Ile Ala Asn Ser Phe Leu Tyr Met Gln Lys Thr Leu Arg Gln
 110 115 120
 Cys Gln Glu Gln Arg Gln Cys His Cys Arg Gln Glu Ala Thr Asn
 125 130 135
 Ala Thr Arg Val Ile His Asp Asn Tyr Asp Gln Leu Glu Val His
 140 145 150
 Ala Ala Ala Ile Lys Ser Leu Gly Glu Leu Asp Val Phe Leu Ala
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P2730P1sequencelisting.txt

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170 175

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<211> 996
<212> DNA
<213> Homo Sapien

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tccacaggtg tccactccca ggtccaactg cacctcgggt ctatcgataa 200
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gcctatccca atgcctcccc actgctcggc tccagctggg gtggcctgat 350
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<210> 511
<211> 251
<212> PRT
<213> Homo Sapien

<400> 511
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20 25 30
Leu Leu Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala
35 40 45
Thr Ala Arg Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His
50 55 60

P2730P1sequencelisting.txt

Val	Asp	Gly	Ala	Pro	His	Gln	Thr	Ile	Tyr	Ser	Ala	Leu	Met	Ile
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Arg	Ser	Glu	Asp	Ala	Gly	Phe	Val	Val	Ile	Thr	Gly	Val	Met	Ser
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Arg	Arg	Tyr	Leu	Cys	Met	Asp	Phe	Arg	Gly	Asn	Ile	Phe	Gly	Ser
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His	Tyr	Phe	Asp	Pro	Glu	Asn	Cys	Arg	Phe	Gln	His	Gln	Thr	Leu
				110					115					120
Glu	Asn	Gly	Tyr	Asp	Val	Tyr	His	Ser	Pro	Gln	Tyr	His	Phe	Leu
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Val	Ser	Leu	Gly	Arg	Ala	Lys	Arg	Ala	Phe	Leu	Pro	Gly	Met	Asn
				140					145					150
Pro	Pro	Pro	Tyr	Ser	Gln	Phe	Leu	Ser	Arg	Arg	Asn	Glu	Ile	Pro
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Leu	Ile	His	Phe	Asn	Thr	Pro	Ile	Pro	Arg	Arg	His	Thr	Arg	Ser
				170					175					180
Ala	Glu	Asp	Asp	Ser	Glu	Arg	Asp	Pro	Leu	Asn	Val	Leu	Lys	Pro
				185					190					195
Arg	Ala	Arg	Met	Thr	Pro	Ala	Pro	Ala	Ser	Cys	Ser	Gln	Glu	Leu
				200					205					210
Pro	Ser	Ala	Glu	Asp	Asn	Ser	Pro	Met	Ala	Ser	Asp	Pro	Leu	Gly
				215					220					225
Val	Val	Arg	Gly	Gly	Arg	Val	Asn	Thr	His	Ala	Gly	Gly	Thr	Gly
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Pro	Glu	Gly	Cys	Arg	Pro	Phe	Ala	Lys	Phe	Ile				
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 <211> 2015
 <212> DNA
 <213> Homo Sapien

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 ctgctgggag gttggggctct ctgggagctc tgcaggcccc agcaccgcga 150
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P2730P1sequencelisting.txt

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<210> 513

<211> 482

<212> PRT

<213> Homo Sapien

<400> 513

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P2730P1sequencelisting.txt

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Met	Thr	Leu	Ala	Pro	Gly	His	Ala	Ala	Leu	Glu	Thr	Gln	Thr	Leu	50	55	60
Ser	Ala	Glu	Thr	Ser	Ser	Arg	Ala	Ser	Thr	Pro	Ala	Gly	Pro	Ile	65	70	75
Pro	Glu	Ala	Glu	Thr	Arg	Gly	Ala	Lys	Arg	Ile	Ser	Pro	Ala	Arg	80	85	90
Glu	Thr	Arg	Ser	Phe	Thr	Lys	Thr	Ser	Pro	Asn	Phe	Met	Val	Leu	95	100	105
Ile	Ala	Thr	Ser	Val	Glu	Thr	Ser	Ala	Ala	Ser	Gly	Ser	Pro	Glu	110	115	120
Gly	Ala	Gly	Met	Thr	Thr	Val	Gln	Thr	Ile	Thr	Gly	Ser	Asp	Pro	125	130	135
Glu	Glu	Ala	Ile	Phe	Asp	Thr	Leu	Cys	Thr	Asp	Asp	Ser	Ser	Glu	140	145	150
Glu	Ala	Lys	Thr	Leu	Thr	Met	Asp	Ile	Leu	Thr	Leu	Ala	His	Thr	155	160	165
Ser	Thr	Glu	Ala	Lys	Gly	Leu	Ser	Ser	Glu	Ser	Ser	Ala	Ser	Ser	170	175	180
Asp	Gly	Pro	His	Pro	Val	Ile	Thr	Pro	Ser	Arg	Ala	Ser	Glu	Ser	185	190	195
Ser	Ala	Ser	Ser	Asp	Gly	Pro	His	Pro	Val	Ile	Thr	Pro	Ser	Arg	200	205	210
Ala	Ser	Glu	Ser	Ser	Ala	Ser	Ser	Asp	Gly	Pro	His	Pro	Val	Ile	215	220	225
Thr	Pro	Ser	Trp	Ser	Pro	Gly	Ser	Asp	Val	Thr	Leu	Leu	Ala	Glu	230	235	240
Ala	Leu	Val	Thr	Val	Thr	Asn	Ile	Glu	Val	Ile	Asn	Cys	Ser	Ile	245	250	255
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Thr	Glu	Val	Thr	Ala	Ser	Ala	Glu	Thr	Leu	Ser	Thr	Ala	Gly	Thr	305	310	315
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Thr	Asn	Ser	Ala	Thr	Glu	Arg	Glu	Val	Thr	Ala	Pro	Gly	Ala	Thr	335	340	345
Thr	Leu	Ser	Gly	Ala	Leu	Val	Thr	Val	Ser	Arg	Asn	Pro	Leu	Glu	350	355	360

P2730P1sequencelisting.txt

Glu Thr Ser Ala	Leu Ser Val	Glu Thr	Pro Ser Tyr Val	Lys Val
	365		370	375
Ser Gly Ala Ala	Pro Val Ser Ile	Glu Ala Gly Ser	Ala Val	Gly
	380		385	390
Lys Thr Thr Ser	Phe Ala Gly Ser	Ser Ala Ser Ser	Tyr Ser	Pro
	395		400	405
Ser Glu Ala Ala	Leu Lys Asn Phe	Thr Pro Ser Glu	Thr Pro	Thr
	410		415	420
Met Asp Ile Ala	Thr Lys Gly Pro	Phe Pro Thr Ser	Arg Asp	Pro
	425		430	435
Leu Pro Ser Val	Pro Pro Thr Thr	Thr Asn Ser Ser	Arg Gly	Thr
	440		445	450
Asn Ser Thr Leu	Ala Lys Ile Thr	Thr Ser Ala Lys	Thr Thr	Met
	455		460	465
Lys Pro Gln Gln	Pro Arg Pro Arg	Leu Pro Gly Arg	Gly Arg	Pro
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Gln Thr

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 <211> 2284
 <212> DNA
 <213> Homo Sapien

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P2730P1sequencelisting.txt

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<210> 515

<211> 431

<212> PRT

<213> Homo Sapien

<400> 515

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Ile Cys Phe Leu Thr Leu Arg Leu Ser Ala Ser Gln Asn Cys Leu
Page 377

P2730P1sequencelisting.txt

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Ser Lys Gly Ile Arg 50	Gly Asn Glu Pro Val 55	Tyr Thr Ser Thr Gln 60
Glu Asp Cys Ile Asn 65	Ser Cys Cys Ser Thr 70	Lys Asn Ile Ser Gly 75
Asp Lys Ala Cys Asn 80	Leu Met Ile Phe Asp 85	Thr Arg Lys Thr Ala 90
Arg Gln Pro Asn Cys 95	Tyr Leu Phe Phe Cys 100	Pro Asn Glu Glu Ala 105
Cys Pro Leu Lys Pro 110	Ala Lys Gly Leu Met 115	Ser Tyr Arg Ile Ile 120
Thr Asp Phe Pro Ser 125	Leu Thr Arg Asn Leu 130	Pro Ser Gln Glu Leu 135
Pro Gln Glu Asp Ser 140	Leu Leu His Gly Gln 145	Phe Ser Gln Ala Val 150
Thr Pro Leu Ala His 155	His His Thr Asp Tyr 160	Ser Lys Pro Thr Asp 165
Ile Ser Trp Arg Asp 170	Thr Leu Ser Gln Lys 175	Phe Gly Ser Ser Asp 180
His Leu Glu Lys Leu 185	Phe Lys Met Asp Glu 190	Ala Ser Ala Gln Leu 195
Leu Ala Tyr Lys Glu 200	Lys Gly His Ser Gln 205	Ser Ser Gln Phe Ser 210
Ser Asp Gln Glu Ile 215	Ala His Leu Leu Pro 220	Glu Asn Val Ser Ala 225
Leu Pro Ala Thr Val 230	Ala Val Ala Ser Pro 235	His Thr Thr Ser Ala 240
Thr Pro Lys Pro Ala 245	Thr Leu Leu Pro Thr 250	Asn Ala Ser Val Thr 255
Pro Ser Gly Thr Ser 260	Gln Pro Gln Leu Ala 265	Thr Thr Ala Pro Pro 270
Val Thr Thr Val Thr 275	Ser Gln Pro Pro Thr 280	Thr Leu Ile Ser Thr 285
Val Phe Thr Arg Ala 290	Ala Ala Thr Leu Gln 295	Ala Met Ala Thr Thr 300
Ala Val Leu Thr Thr 305	Thr Phe Gln Ala Pro 310	Thr Asp Ser Lys Gly 315
Ser Leu Glu Thr Ile 320	Pro Phe Thr Glu Ile 325	Ser Asn Leu Thr Leu 330
Asn Thr Gly Asn Val 335	Tyr Asn Pro Thr Ala 340	Leu Ser Met Ser Asn 345
Val Glu Ser Ser Thr 350	Met Asn Lys Thr Ala 355	Ser Trp Glu Gly Arg 360

P2730P1sequencelisting.txt

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Leu	Phe	Gly	Val	Leu	Phe	Leu	Val	Ile	Gly	Leu	Val	Leu	Leu	Gly
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Arg	Ile	Leu	Ser	Glu	Ser	Leu	Arg	Arg	Lys	Arg	Tyr	Ser	Arg	Leu
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 <212> DNA
 <213> Homo Sapien

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 <223> unknown base

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P2730P1sequence1isting.txt

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 tccaccttat cgttccatca ctttattcca gcacttctct gtgttttaca 2700
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P2730P1sequencelisting.txt

<210> 517
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 <212> PRT
 <213> Homo Sapien

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 Tyr Glu Ala Leu Glu₂₀ Gly Pro Glu Glu Ile₂₅ Ser Gly Phe Glu Gly₃₀
 Asp Thr Val Ser Leu₃₅ Gln Cys Thr Tyr Arg₄₀ Glu Glu Leu Arg Asp₄₅
 His Arg Lys Tyr Trp₅₀ Cys Arg Lys Gly Gly₅₅ Ile Leu Phe Ser Arg₆₀
 Cys Ser Gly Thr Ile₆₅ Tyr Ala Glu Glu Glu₇₀ Gly Gln Glu Thr Met₇₅
 Lys Gly Arg Val Ser₈₀ Ile Arg Asp Ser Arg₈₅ Gln Glu Leu Ser Leu₉₀
 Ile Val Thr Leu Trp₉₅ Asn Leu Thr Leu Gln₁₀₀ Asp Ala Gly Glu Tyr₁₀₅
 Trp Cys Gly Val Glu₁₁₀ Lys Arg Gly Pro Asp₁₁₅ Glu Ser Leu Leu Ile₁₂₀
 Ser Leu Phe Val Phe₁₂₅ Pro Gly Pro Cys Cys₁₃₀ Pro Pro Ser Pro Ser₁₃₅
 Pro Thr Phe Gln Pro₁₄₀ Leu Ala Thr Thr Arg₁₄₅ Leu Gln Pro Lys Ala₁₅₀
 Lys Ala Gln Gln Thr₁₅₅ Gln Pro Pro Gly Leu₁₆₀ Thr Ser Pro Gly Leu₁₆₅
 Tyr Pro Ala Ala Thr₁₇₀ Thr Ala Lys Gln Gly₁₇₅ Lys Thr Gly Ala Glu₁₈₀
 Ala Pro Pro Leu Pro₁₈₅ Gly Thr Ser Gln Tyr₁₉₀ Gly His Glu Arg Thr₁₉₅
 Ser Gln Tyr Thr Gly₂₀₀ Thr Ser Pro His Pro₂₀₅ Ala Thr Ser Pro Pro₂₁₀
 Ala Gly Ser Ser Arg₂₁₅ Pro Pro Met Gln Leu₂₂₀ Asp Ser Thr Ser Ala₂₂₅
 Glu Asp Thr Ser Pro₂₃₀ Ala Leu Ser Ser Gly₂₃₅ Ser Ser Lys Pro Arg₂₄₀
 Val Ser Ile Pro Met₂₄₅ Val Arg Ile Leu Ala₂₅₀ Pro Val Leu Val Leu₂₅₅
 Leu Ser Leu Leu Ser₂₆₀ Ala Ala Gly Leu Ile₂₆₅ Ala Phe Cys Ser His₂₇₀
 Leu Leu Leu Trp Arg₂₇₅ Lys Glu Ala Gln Gln₂₈₀ Ala Thr Glu Thr Gln₂₈₅
 Arg Asn Glu Lys Phe₂₉₀ Trp Leu Ser Arg Leu₂₉₅ Thr Ala Glu Glu Lys₃₀₀
 Glu Ala Pro Ser Gln₃₀₅ Ala Pro Glu Gly Asp₃₁₀ Val Ile Ser Met Pro₃₁₅

P2730P1sequencelisting.txt

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Ser Ala

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<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

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P2730P1sequencelisting.txt

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